SCHEMATIC DIAGRAMS
MOD.

H 500

ELECTRONIC ORGAN

GEM A PRODUCT OF general electro music

MONDAINO · FO · ITALY

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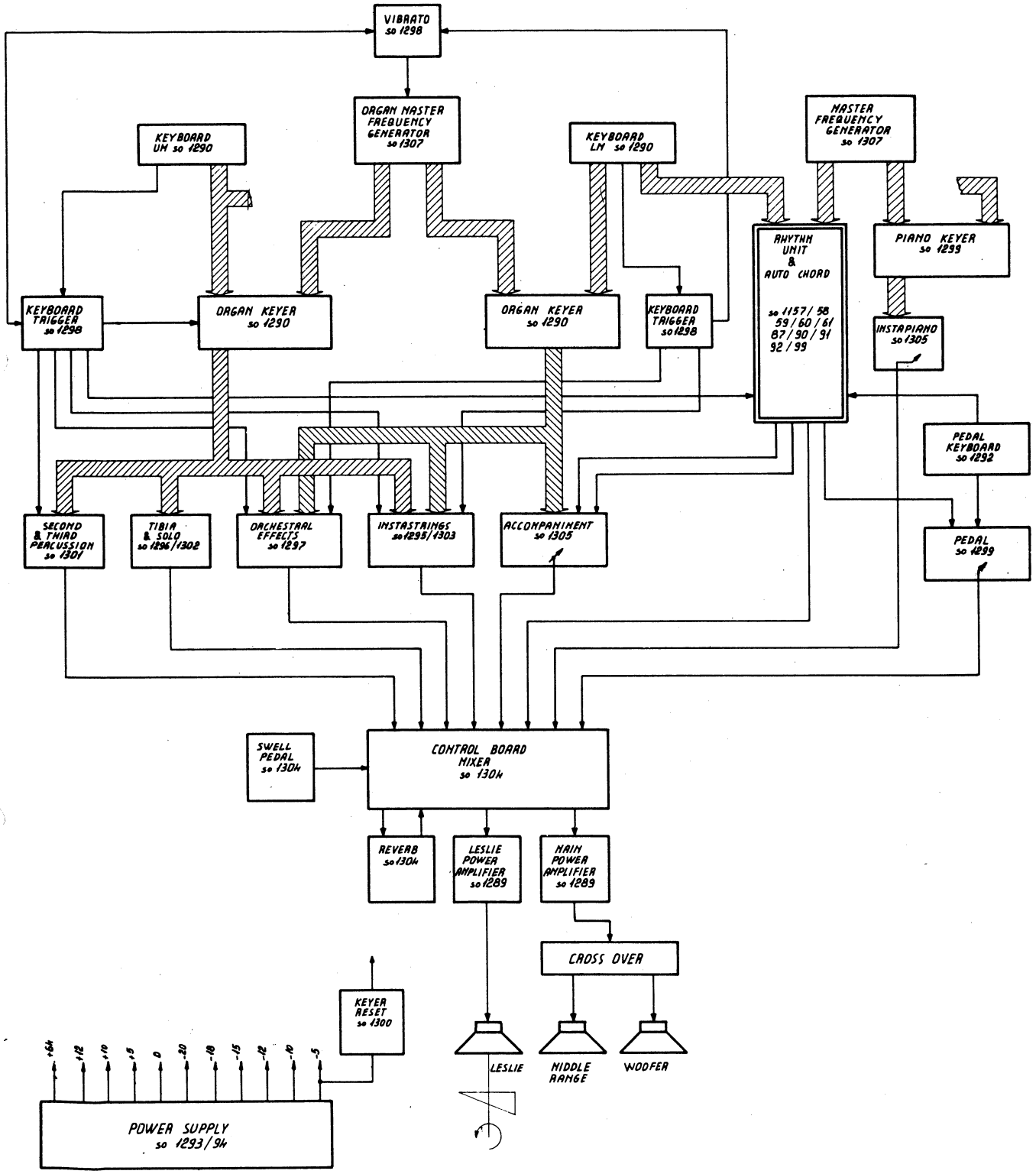
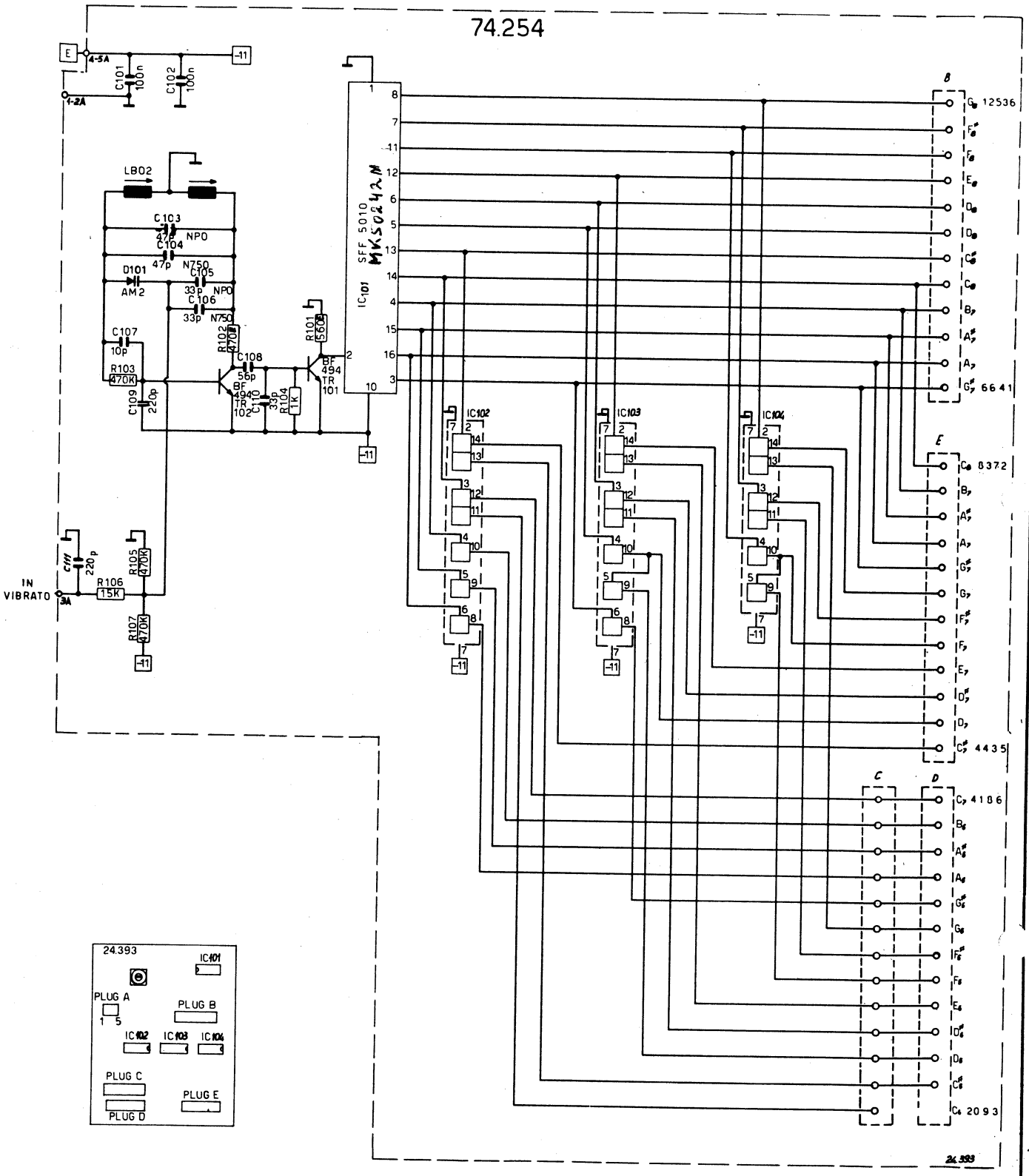


REV.	SUBJECT	DATE	CKD
ISSUED	DATE 23.10.78 BY	USED ON:	DDR MONDAINO (FO)
DRAWN	23.10.78		
CKD	23.10.78		
APPVD	23.10.78		
N°. S01306		SCHEMATIC DIAGRAM: BLOCK DIAGRAM	
REPLACED DY			
REPLACING			



NOTES: 1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND
3) IC 102-103-104 ARE SEVEN STAGE DIVIDERS TYPE HBF 4727, SAA 1004

REV.	SUBJECT	DATE	CKD
ISSUED	DATE 19-10-78 BY	USED ON:	
DRAWN	19-10-78		
CKD	19-10-78		
APPVD	19-10-78		

DDR MONDAINO (FO)

Nº S01307

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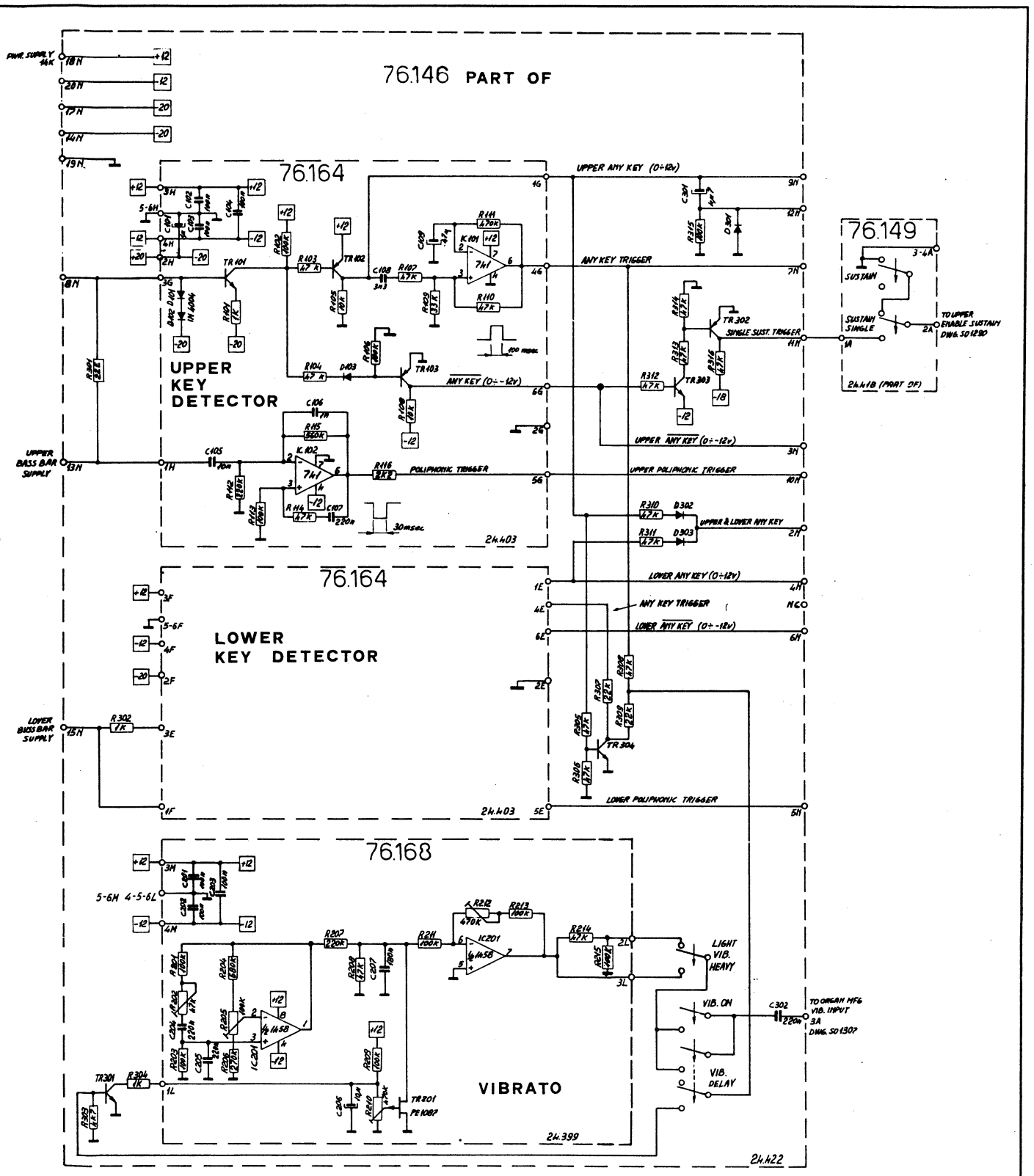
SCHEMATIC DIAGRAM:
MASTE FREQUENCY GENERATOR



NOTES: 1) ALL RESISTORS ¼ WATT UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	19-10-71	MLL	
CKD	21-4-72		
APPRVD	23-6-72		

DDR MONDAINO (FO)

N°: S01298

SCHEMATIC DIAGRAM: KEYBOARD TRIGGER & VIBRATO

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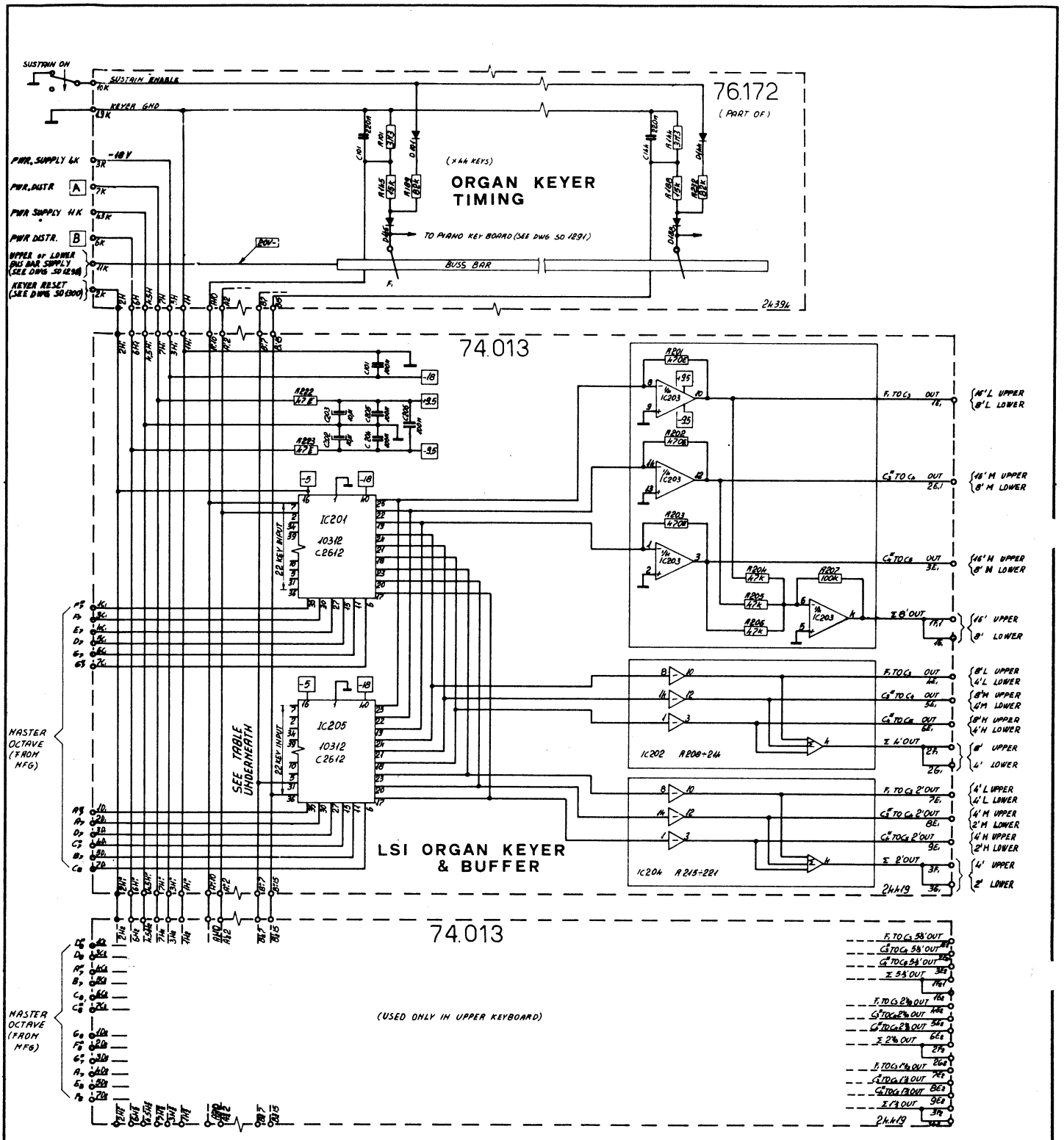
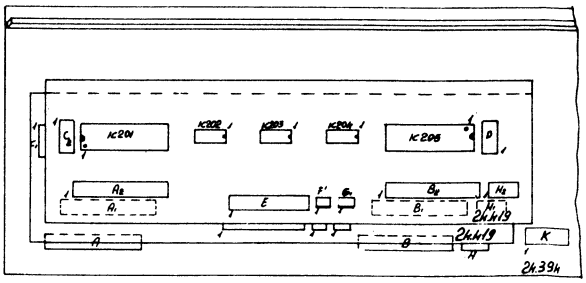


KEY	CONN A	IC 101 Pin	CONN B	IC 105 Pin
F 1	10	7		
F# 1	2	2		
G 1	9	34		
G# 1	1	39		
A 1			14	7
A# 1			22	2
B 1			13	34
C 2			21	39
C# 2			1	26
D 2			6	12
D# 2	21	26		
E 2	18	12		
F 2	12	8		
F# 2	4	3		
G 2	11	33		
G# 2	3	38		
A 2			12	8
A# 2			20	3
B 2			11	33
C 3			19	38
C# 3			3	28

D 3			4	13
D# 3	19	28		
E 3	20	13		
F 3	14	9		
F# 3	6	4		
G 3	13	32		
G# 3	5	37		
A 3			10	9
A# 3			18	4
B 3			9	32
C 4			17	37
C# 4			5	29
D 4			2	14
D# 4	17	29		
E 4	22	14		
F 4	16	10		
F# 4	8	5		
G 4	15	31		
G# 4	7	36		
A 4			8	10
A# 4			16	5
B 4			7	31
C 5			15	36

NOTES:
1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND
4) ALL TABSWITCHES SHOWN IN OFF POSITION



REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	
DRAWN	29-8-78		
CKD	30-8-78		
APPVD	30-8-78		

USED ON:

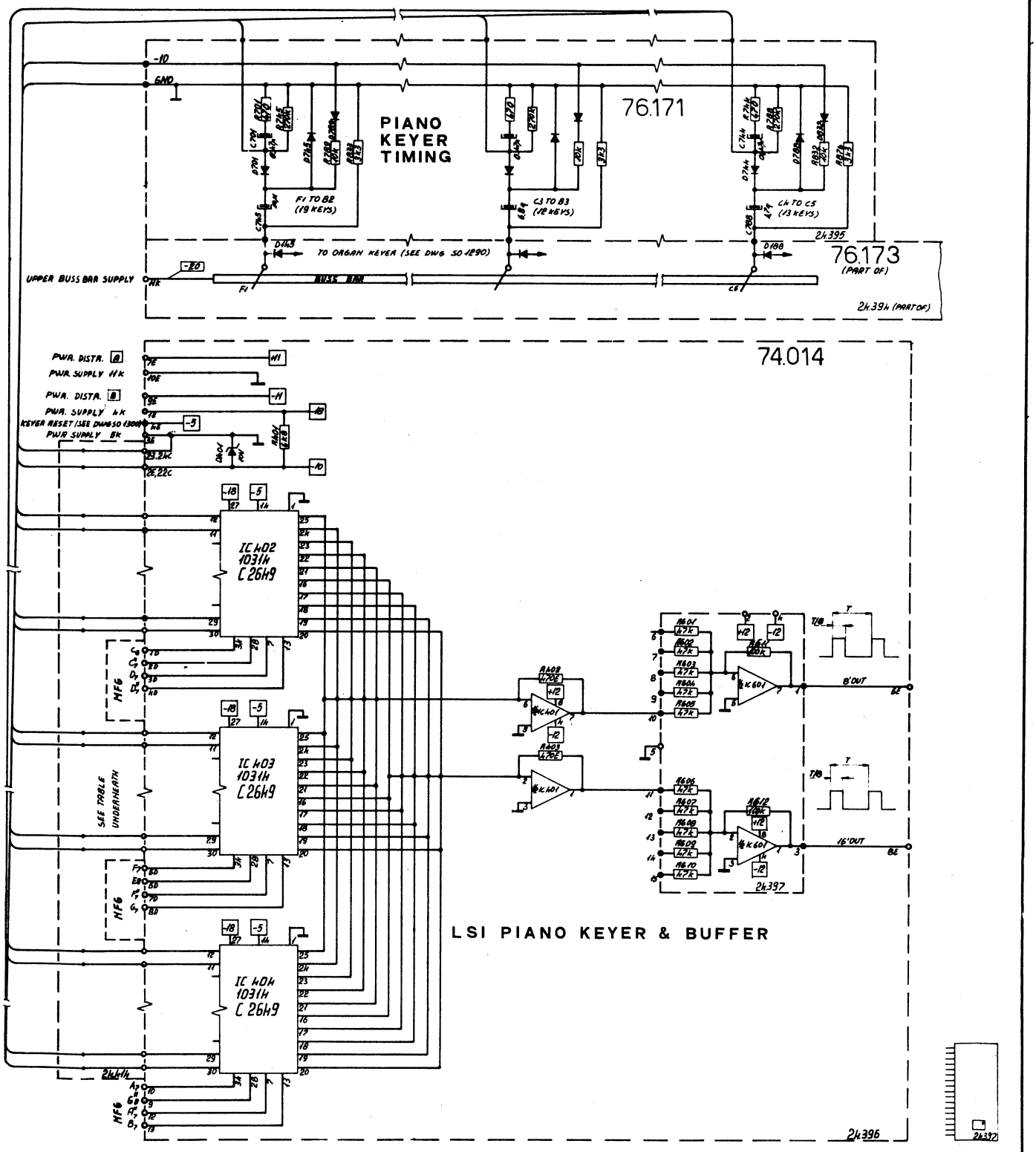
DDR MONDAINO (FO)

Nr. SO 1290

REPLACED BY

REPLACING

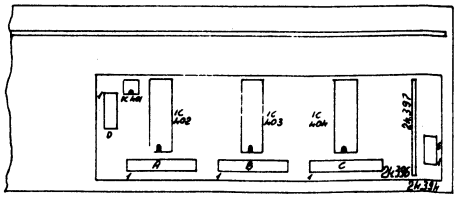
SCHEMATIC DIAGRAM: ORGAN KEYBOARD & BUFFER



KEY	CONN. A	IC 402	CONN B	IC 403	CONN. C	IC 404
F1			8	37		
F#1			13	5		
G1			18	9		
G#1					2	30
A1					8	37
A#1					13	5
B1					18	9
C2	8	37				
C#2	3	31				
D2	14	4				
D#2	19	10				
E2			3	31		
F2			9	38		
F#2			14	4		
G2			19	10		
G#2					3	31
A2					9	38
A#2					14	4
B2					19	10
C3	9	38				
C#3	4	32				
D3	15	3				

KEY	CONN. A	IC 402	CONN B	IC 403	CONN C	IC 404
D#3	20	11				
E3			4	32		
F3			10	39		
F#3			15	3		
G3			20	11		
G#3					4	32
A3					10	39
A#3					15	3
B3					20	11
C4	10	39				
C#4	5	33				
D4	16	5				
D#4	21	12				
E4			5	33		
F4			11	40		
F#4			16	2		
G4			21	12		
G#4					5	33
A4					11	40
A#4					16	2
B4					21	12
C5	11	40				

NOTES: 1) ALL RESISTORS 1/4W WATT UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND



REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	1-9-78		
CKD	6-9-78		
APPVD	6/9/78		

DDR MONDAINO (FO)

Nº. S01291

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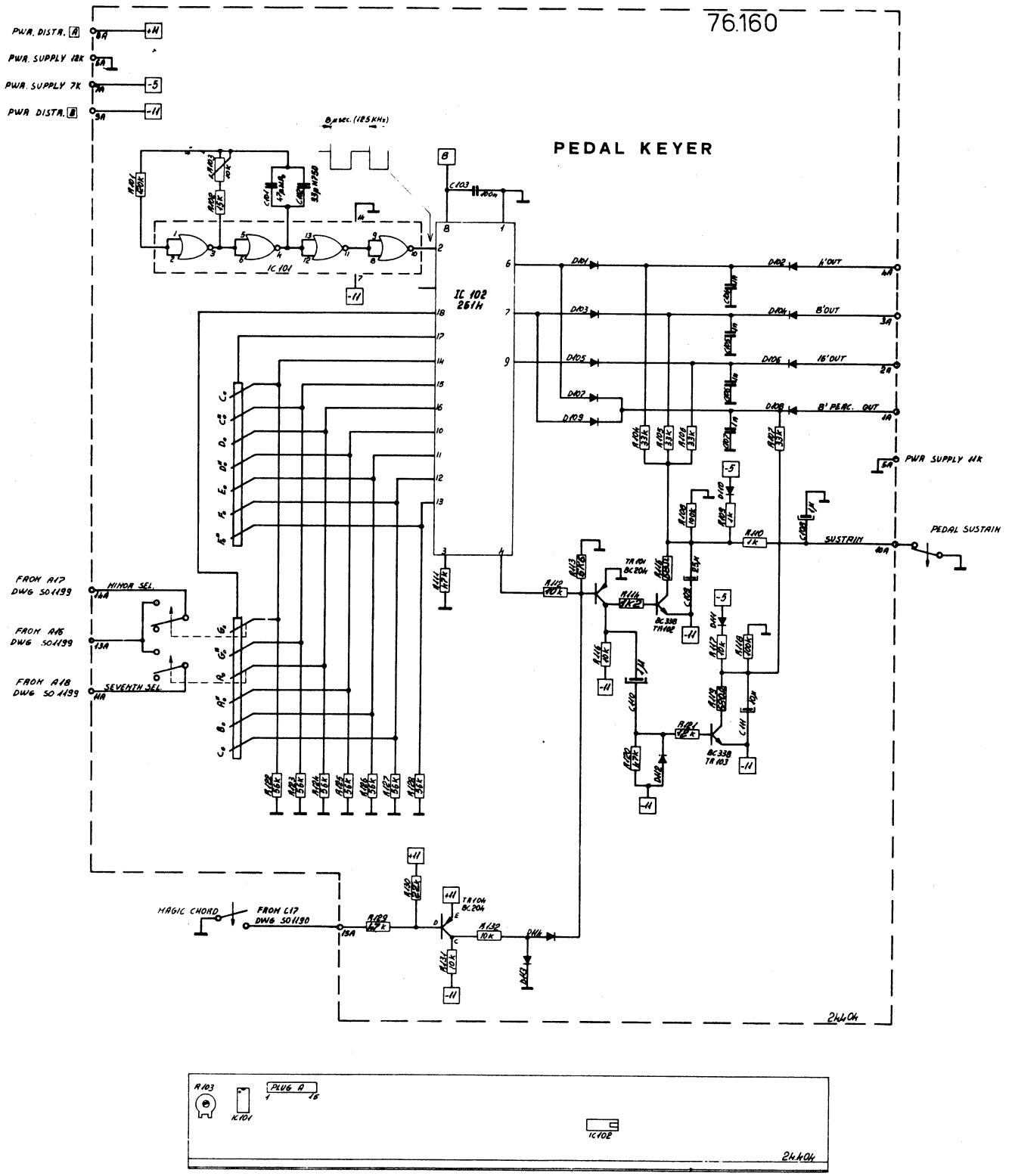
REPLACING

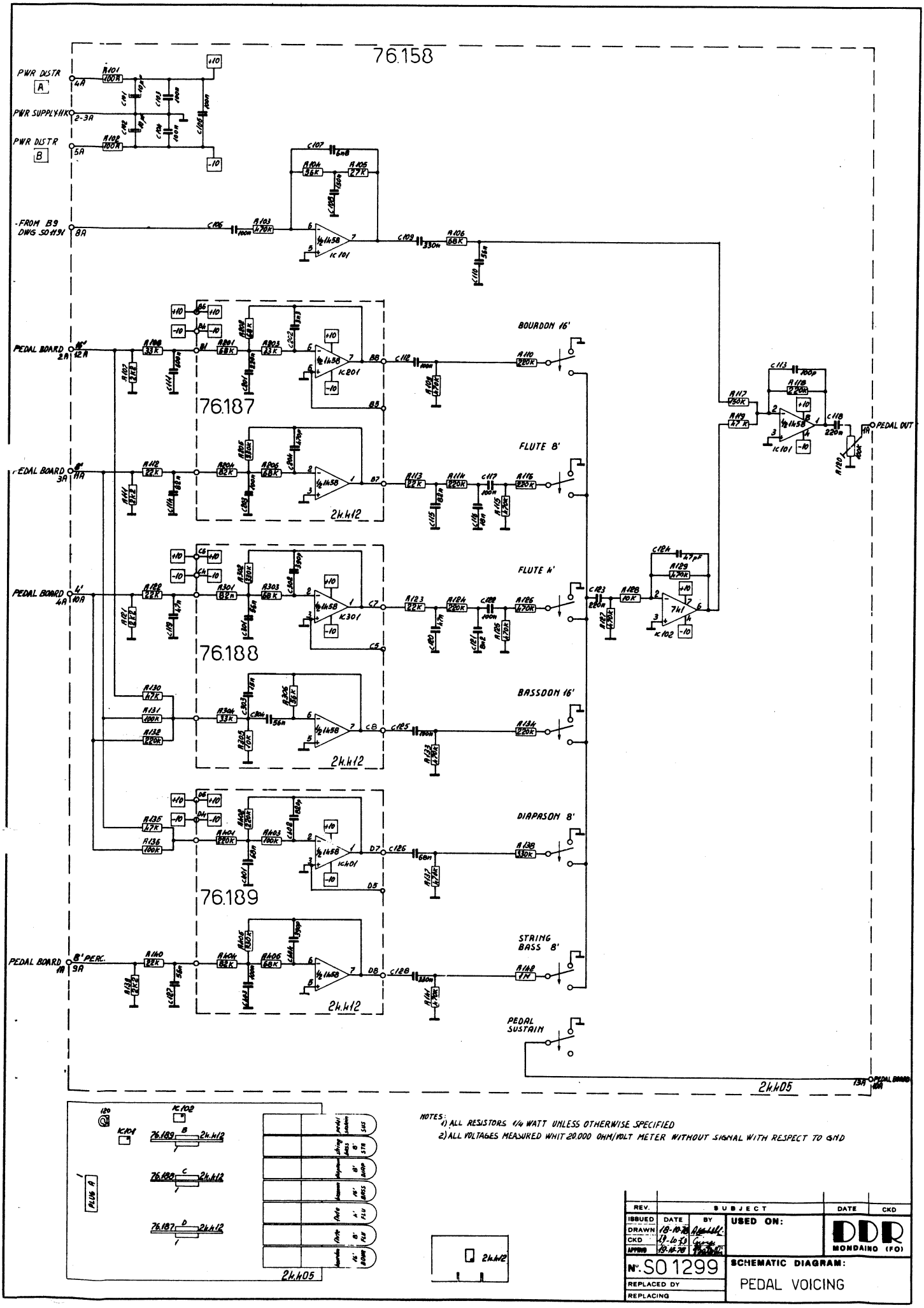
SCHEMATIC DIAGRAM: PIANO KEYBOARD & BUFFER

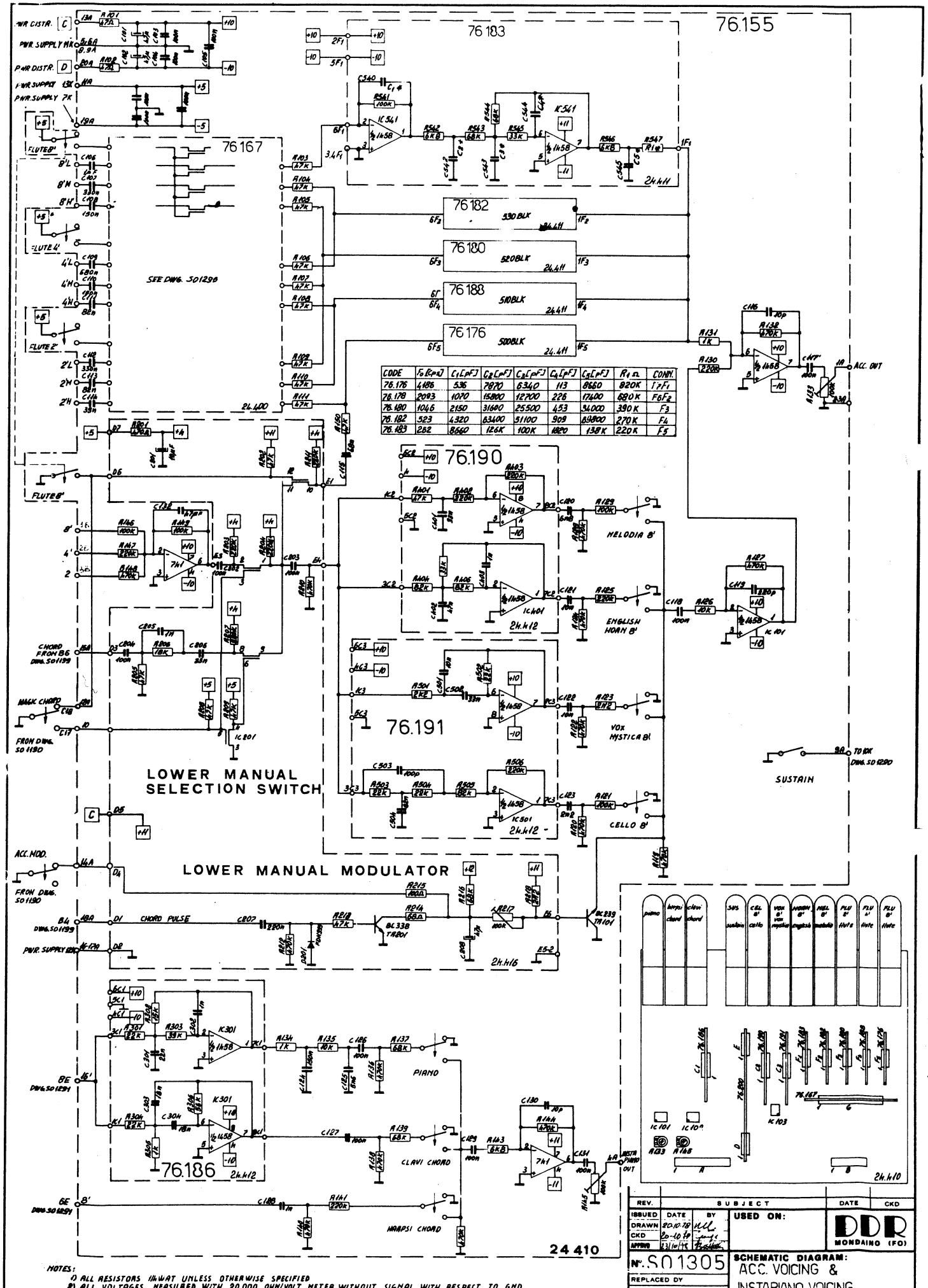


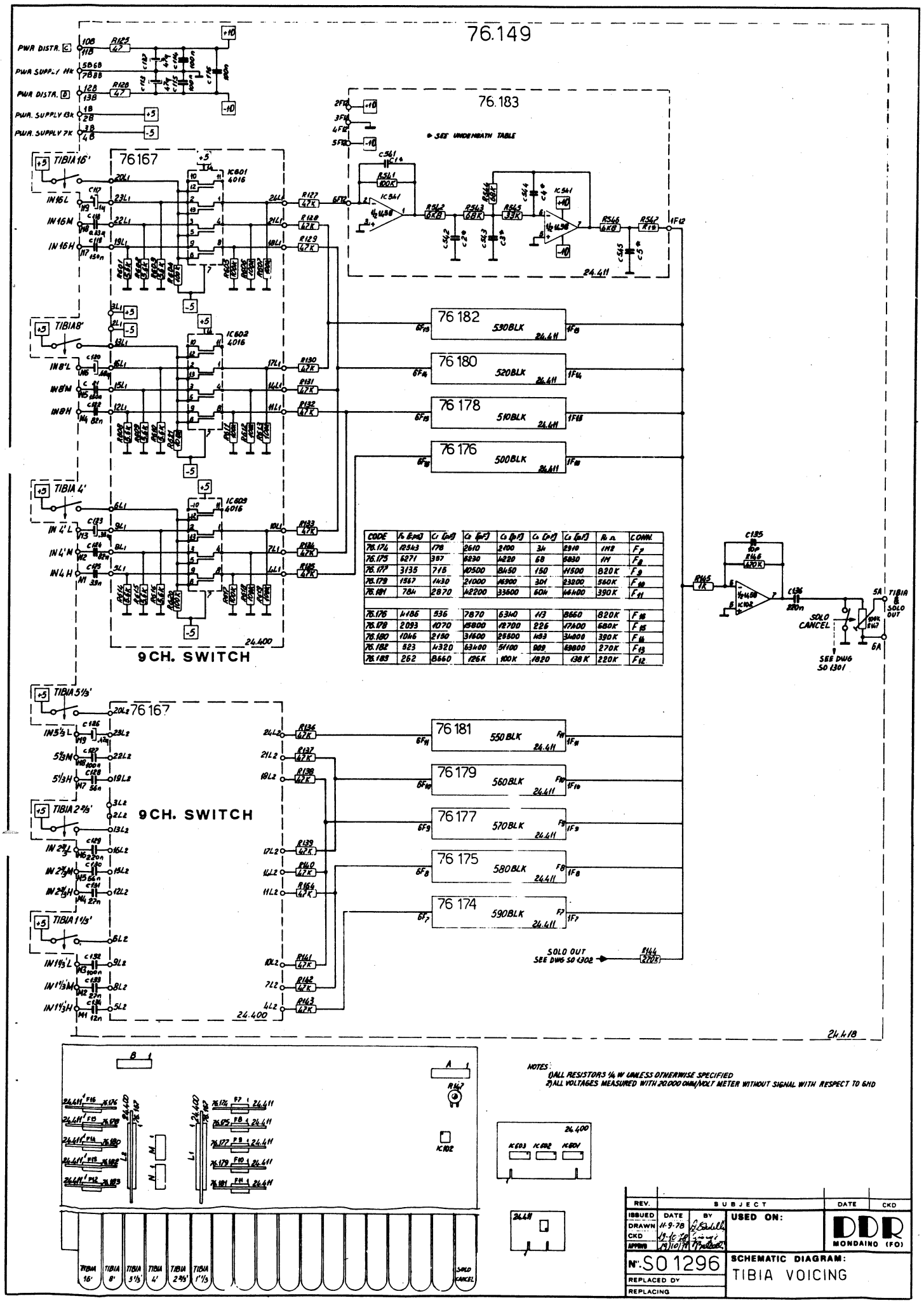
NOTES: 1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.	SUBJECT		DATE	CKD
ISSUED	DATE	BY	USED ON:	
DRAWN	30-8-78			
CKD	19-10-78			
APPRVD	8/11/78			
N°. S01292			SCHEMATIC DIAGRAM: PEDAL KEYBOARD	
REPLACED BY				
REPLACING				

DDR MONDAINO (FO)


76.158
PWR DISTR A
PWR SUPPLY HK
PWR DISTR B
FROM B9 DWG SO 1191
IC 101
76.187
BOURDON 16'
FLUTE 8'
PEDAL BOARD 2A
PEDAL BOARD 3A
2k.h12
IC 201
IC 301
76.188
FLUTE 4'
PEDAL BOARD 4A
BASSOON 16'
76.189
DIAPASON 8'
STRING BASS 8'
PEDAL BOARD 8' PERC.
PEDAL SUSTAIN
PEDAL OUT
2k.h05
IC 102
IC 401
IC 104
PLUG A
NOTES:
1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WHIT 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND
SUBJECT
DATE
CKD
ISSUED
DRAWN
CKD
APPRD
USED ON:
DDR MONDAINO (FO)
Nº. S01299
REPLACED BY
REPLACING
SCHEMATIC DIAGRAM:
PEDAL VOICING


76.155
76.183
76.167
76.182
76.180
76.188
76.176
76.190
76.191
76.186
LOWER MANUAL SELECTION SWITCH
LOWER MANUAL MODULATOR
SUSTAIN
HELODIA 8'
ENGLISH HORN 8'
VOX MYSTICA 8'
CELLO 8'
PIANO
CLAVI CHORD
HARPSI CHORD
ACC. OUT
TO 10K
PWR. SUPPLY 7K
PWR. SUPPLY 15K
PWR. SUPPLY MK
PWR DISTR.
FLUTE 8'
FLUTE 4'
FLUTE 2'
CHORD PULSE
ACC. MOD.
MAGN. CHORD
SEE DWG. 501298
24.400
24.411
24.412
24.416
24.410
24.410
24.412
24.412
24.411
24.411
24.411



CODE	fo (Hz)	Ci (pF)	Cs (pF)	Cs (pF)	Cs (pF)	Cs (pF)	Ro Ω	CONN.
76.174	12543	178	2610	2100	34	2910	1MΩ	F_7
76.175	5271	387	9230	4220	68	6830	1M	F_8
76.177	3135	718	10500	8450	150	11500	820K	F_9
76.179	1567	1430	21000	16900	301	23300	560K	F_{10}
76.181	784	2870	42200	33600	604	46400	390K	F_{11}
76.176	4186	536	7870	6340	113	8660	820K	F_6
76.178	2093	1070	15800	12700	226	17400	680K	F_5
76.180	1046	2150	31600	25500	453	34800	390K	F_4
76.182	523	4320	63400	51100	909	69800	270K	F_3
76.183	262	8660	126K	100K	1820	138K	220K	F_{12}

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	11-9-78		
CKD	19-10-78		
APPVD	19/10/78		

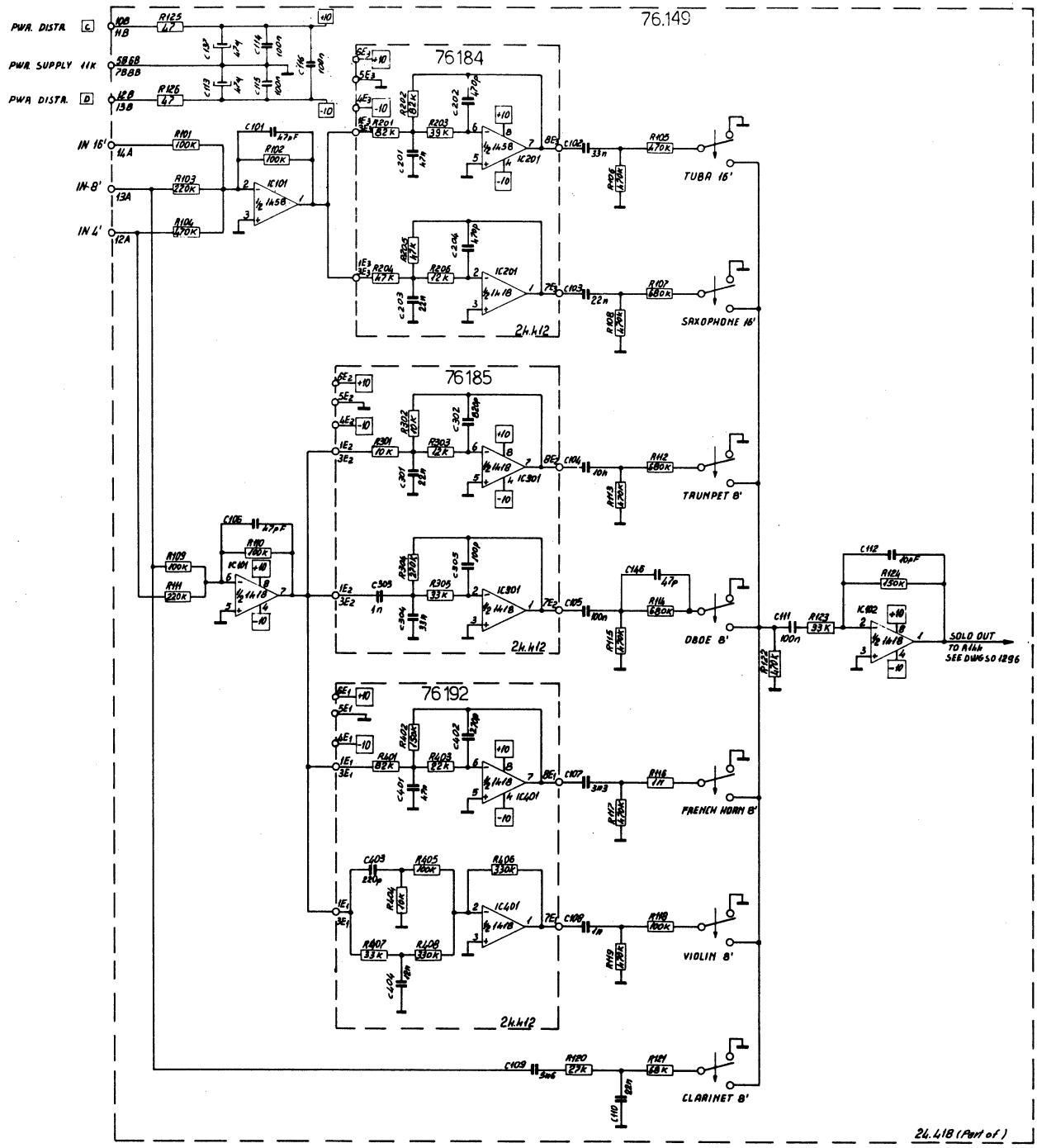
DDR MONDAINO (FO)

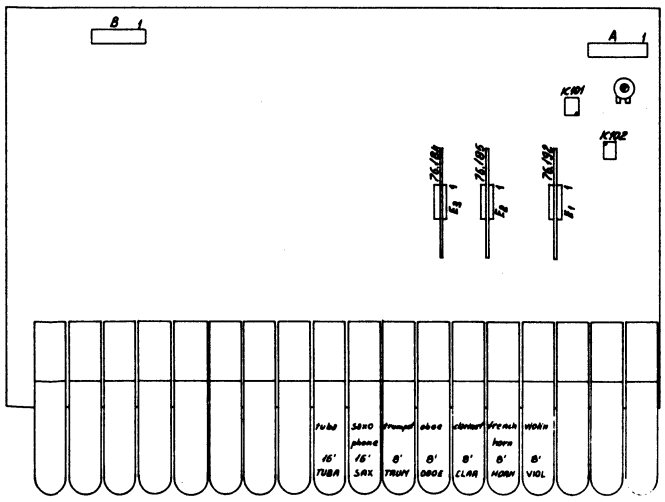
N° SO 1296

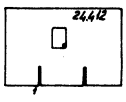
REPLACED BY

REPLACING

SCHEMATIC DIAGRAM: TIBIA VOICING

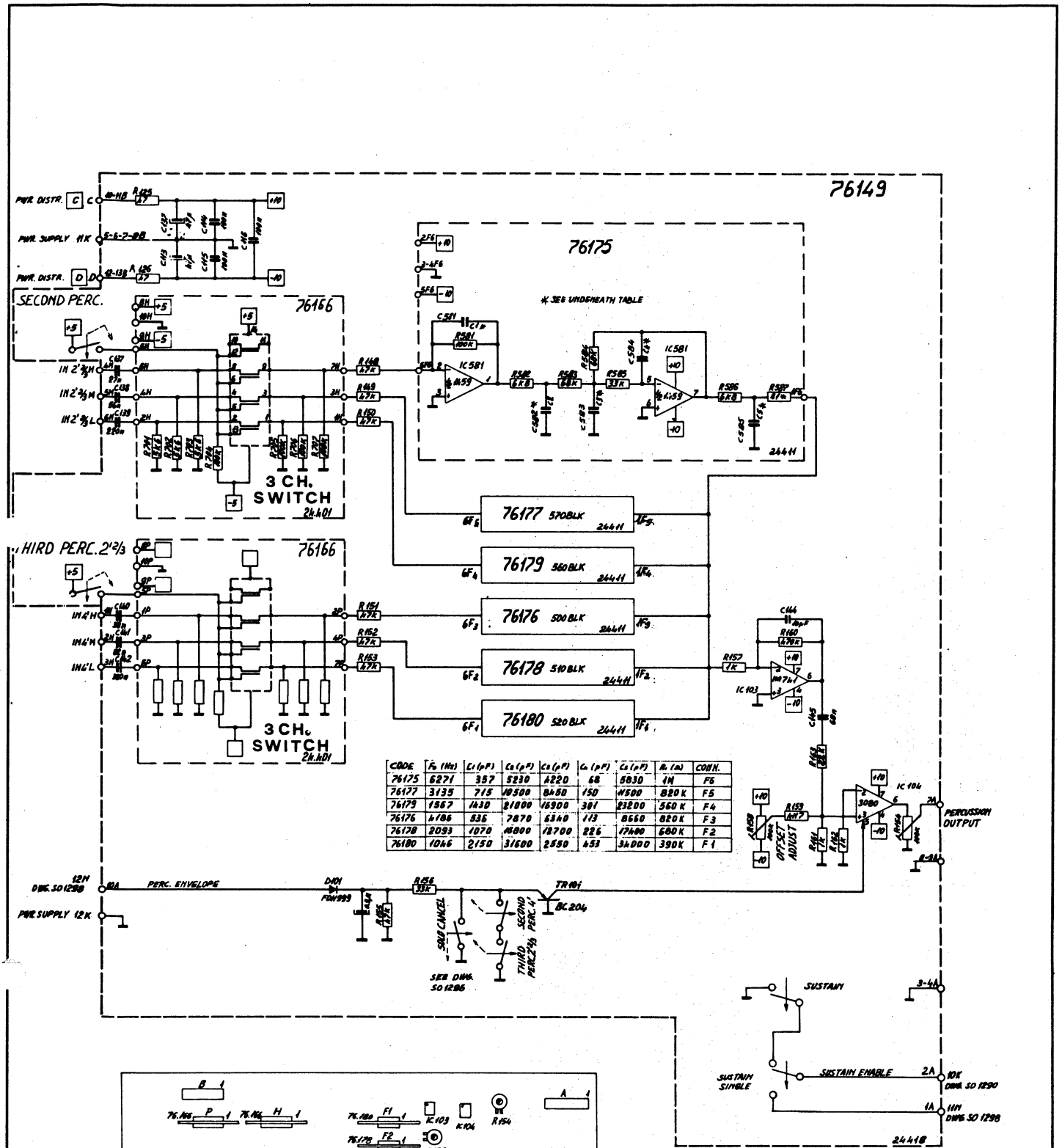






NOTES:
1) ALL RESISTORS ¼W UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE 13-10-78 BY A.Sell.	USED ON:	DDR MONDAINO (FO)
DRAWN			
CKD	18-10-78		
APPVD	19/10/78		
N°: SO1302		SCHEMATIC DIAGRAM: SOLO VOICING	
REPLACED BY			
REPLACING			



CODE	F_0 (Hz)	C_1 (pF)	C_2 (pF)	C_3 (pF)	C_4 (pF)	C_5 (pF)	R_1 (Ω)	CONN.
76175	6271	357	5230	4220	68	5830	1M	F6
76177	3135	715	10500	8460	150	11500	820K	F5
76179	1567	1430	21800	16900	301	23200	560K	F4
76176	4186	536	7870	6340	113	8660	820K	F3
76178	2093	1070	16800	12700	226	17600	680K	F2
76180	1046	2150	31600	2550	453	34000	390K	F1

NOTES:
1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE 18/10/78 BY	USED ON:	
DRAWN	18/10/78		
CKD	18/10/78		
APPRVD	20/10/78		

DDR MONDAINO (FO)

N°. SO 1301

SCHEMATIC DIAGRAM: SECOND & THIRD PERC. VOICING

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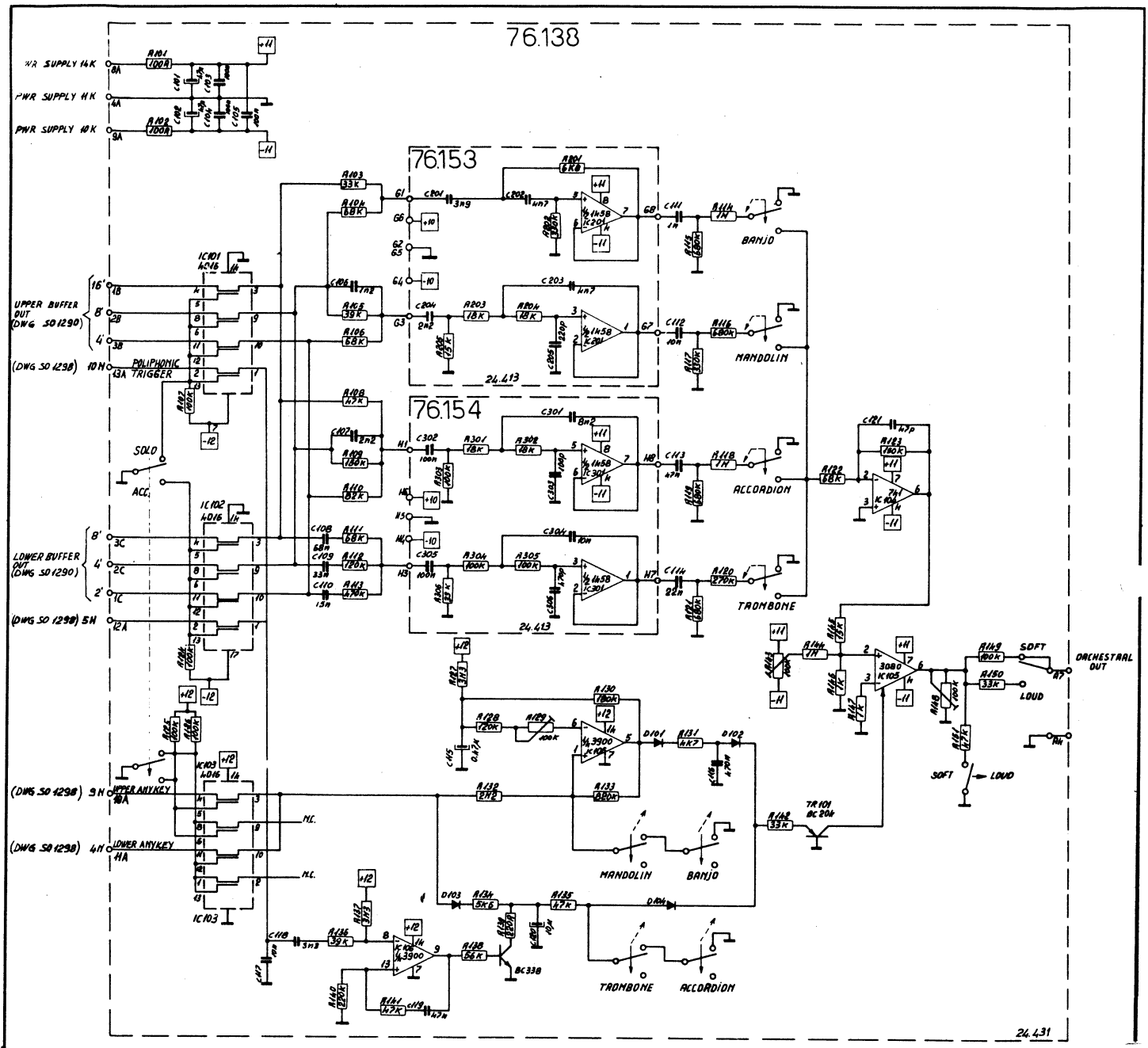
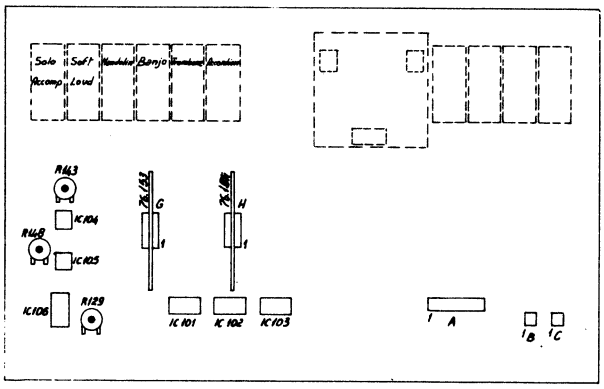
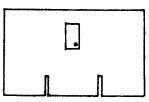


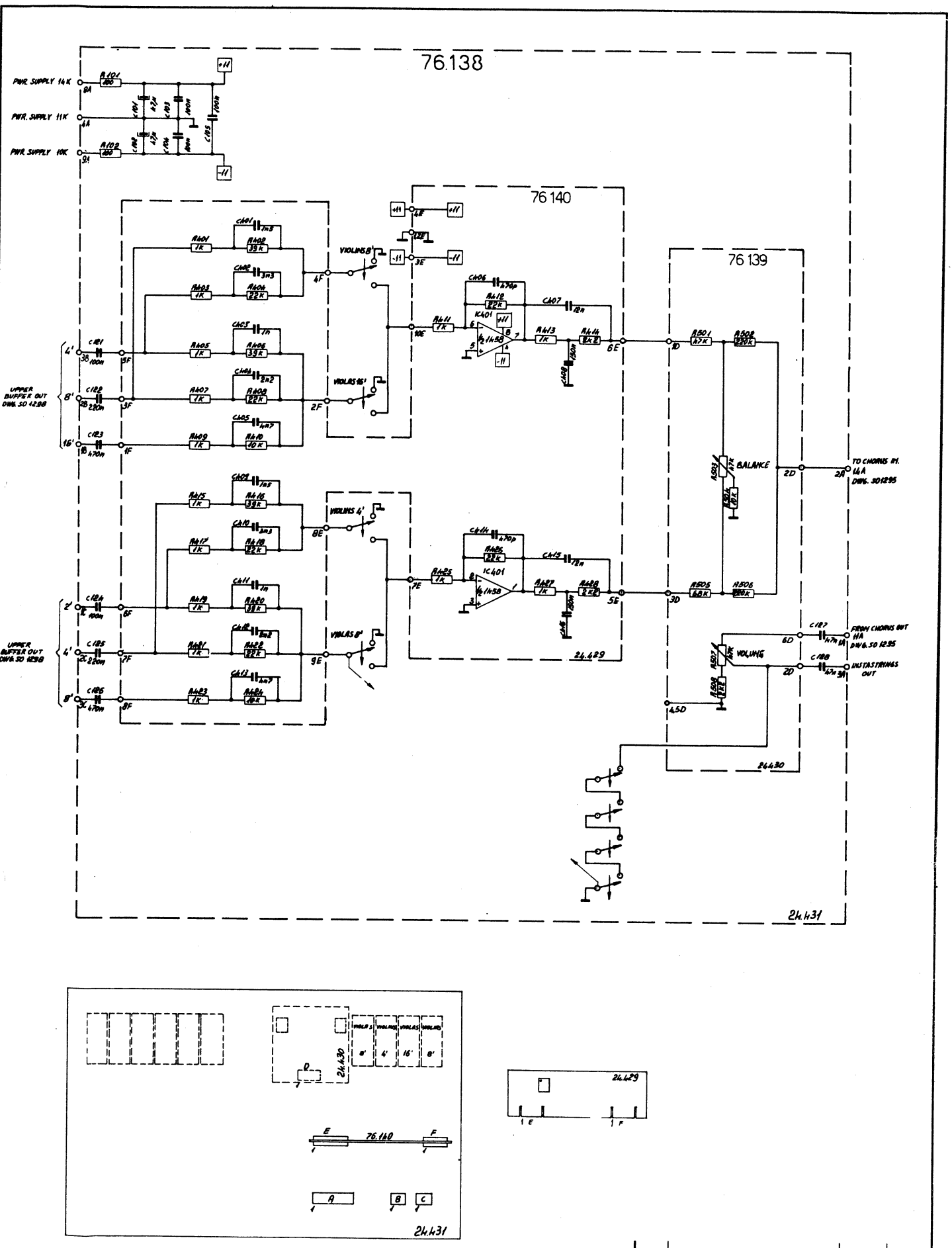




NOTES: 1) ALL RESISTORS ¼ WATT UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 900 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

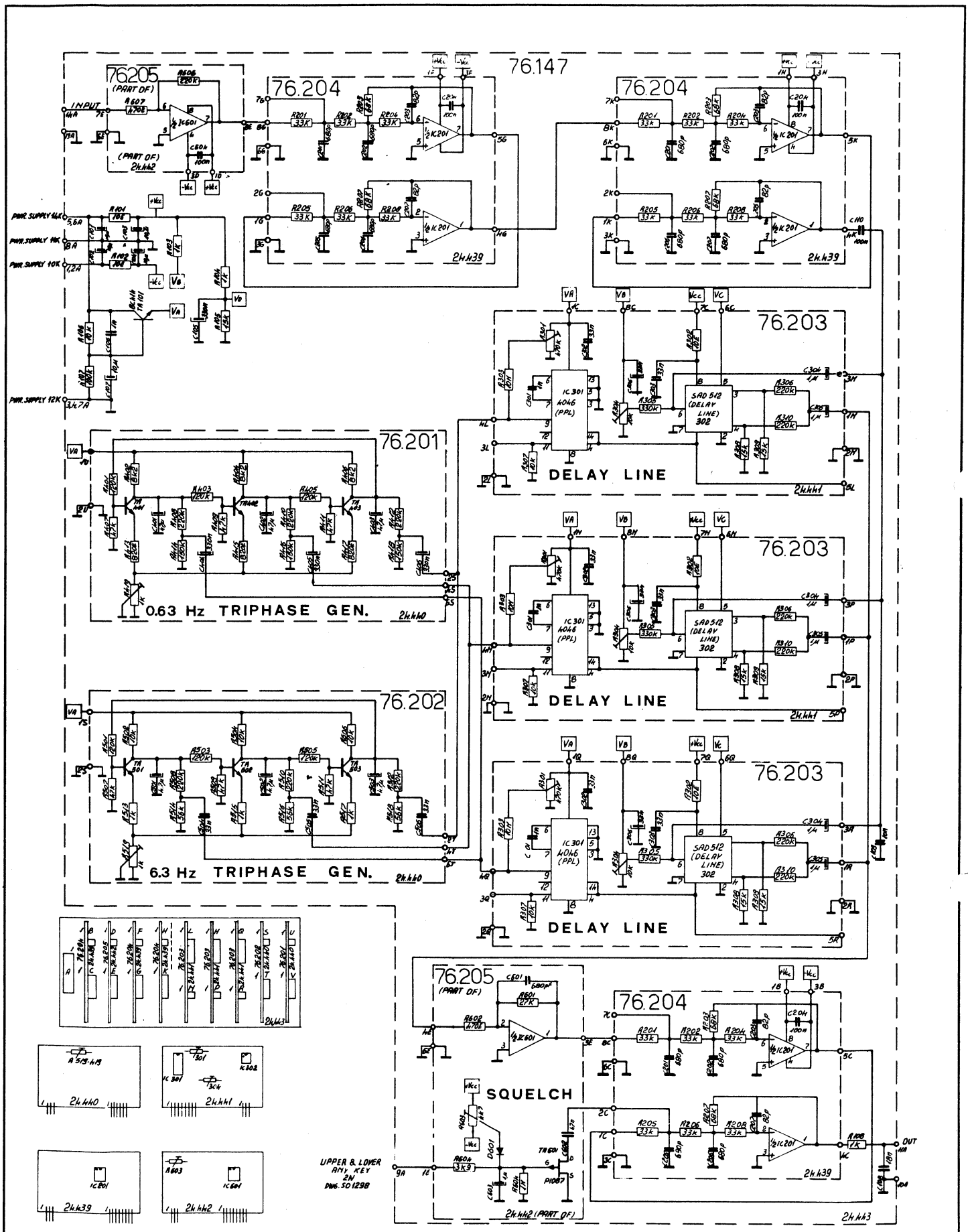
REV.	SUBJECT		DATE	CKD
ISSUED	DATE	BY	USED ON:	
DRAWN	12-9-78	A.Bassi		
CKD	23-10-78	Guinesi		
APPRVD	6-11-78	Bartoli		
Nr. S01297			SCHEMATIC DIAGRAM: ORCHESTRAL EFFECTS VOICING	
REPLACED BY				
REPLACING				

DDR MONDAINO (FO)



NOTES:
1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.	SUBJECT	DATE	CKD
ISSUED	DATE / BY	USED ON:	DDR MONDAINO (FO)
DRAWN	18-10-78 A. Gabellini		
CKD	20-10-78 Gianni		
APPRVD	23/10/78 [illegible]		
N°. S01303		SCHEMATIC DIAGRAM: INSTASTRINGS VOICING	
REPLACED BY			
REPLACING			



NOTES:
1) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED
2) ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED
3) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND
4) ALL INTEGRED CIRCUIT ARE 14 PIN

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	7-9-78		
CKD			
APPRVD			

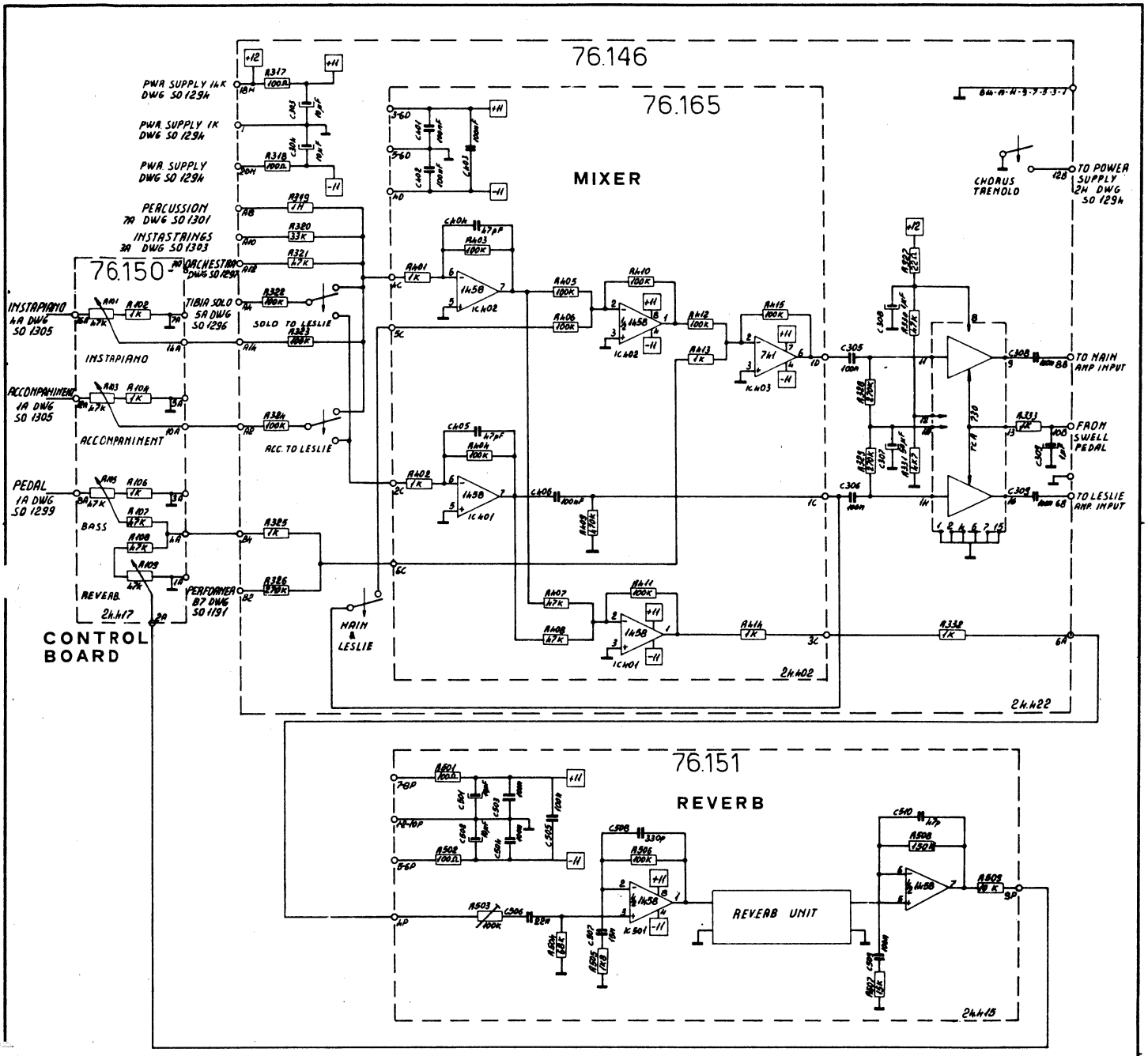
DDR MONDAINO (FO)

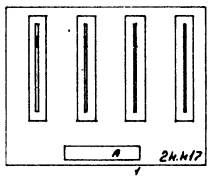
N. S01295

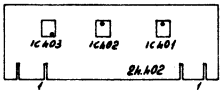
REPLACED BY

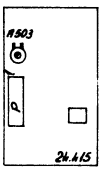
REPLACING

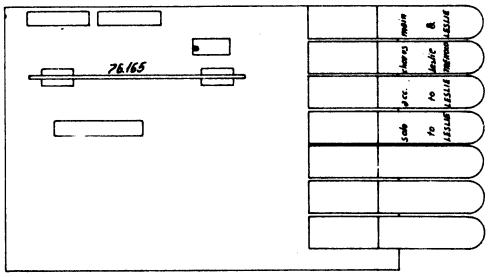
SCHEMATIC DIAGRAM:
INSTASTRINGS
CHORUS

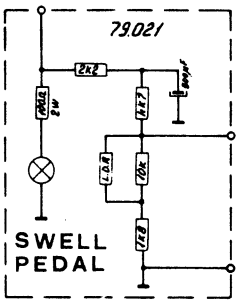












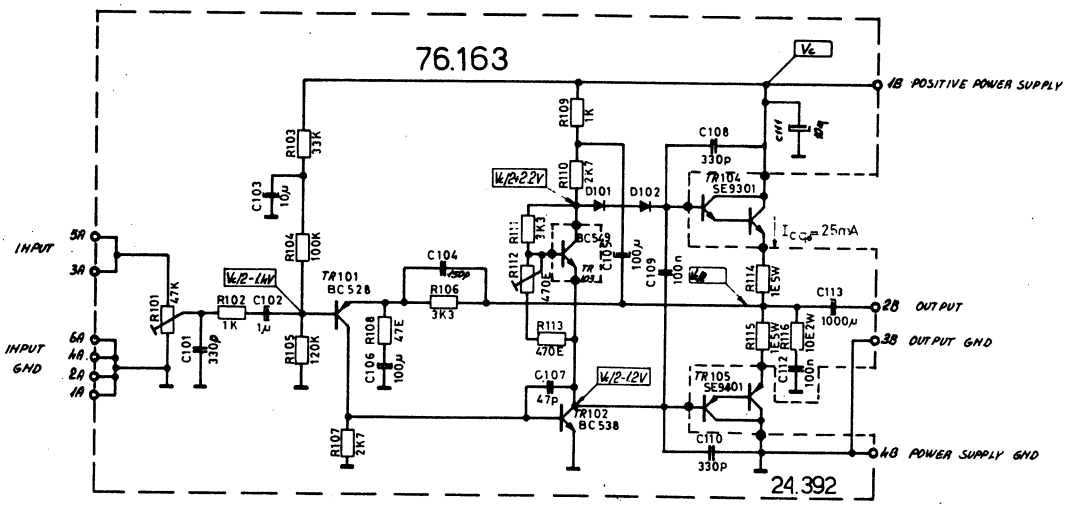
NOTES:
1) ALL RESISTORS 1/4 WAT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20.000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

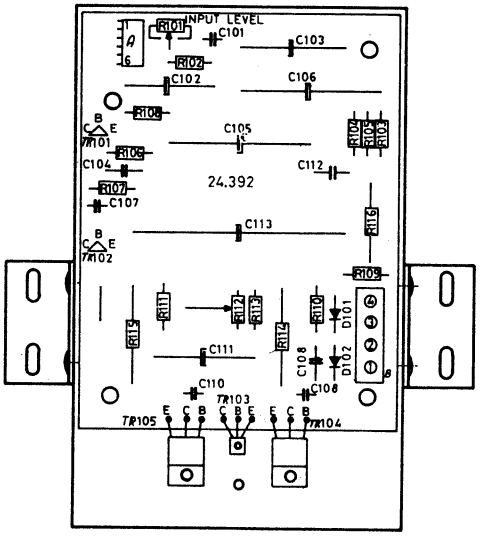
REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	19-10-78		
CKD	23-10-78		
APPVD	25/10/78		

DDR MONDAINO (FO)

N°: S01304
REPLACED D°
REPLACING

SCHEMATIC DIAGRAM:
CONTROL BOARD, MIXER
SWELL PEDAL, REVERB





NOTES: ALL RESISTOR 1/4 W UNLESS OTHERWISE SPECIFIED
ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITH RESPECT TO GND *WITHOUT* SIGNAL
ALL DIODES FDH 999 UNLESS OTHERWISE SPECIFIED

REV.	SUBJECT	DATE	CKD
ISSUED	DATE 26/5/78	BY	USED ON:
DRAWN			
CKD	6/9/78		
APPRD	6/10/78		

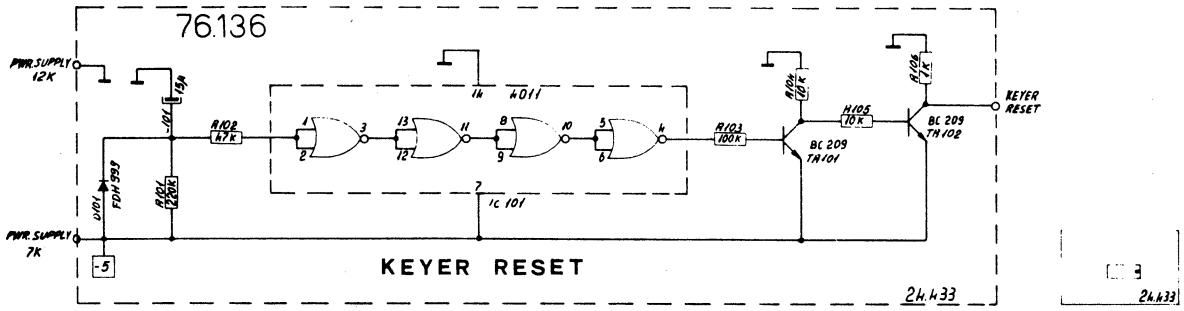
DDR MONDAINO (FO)

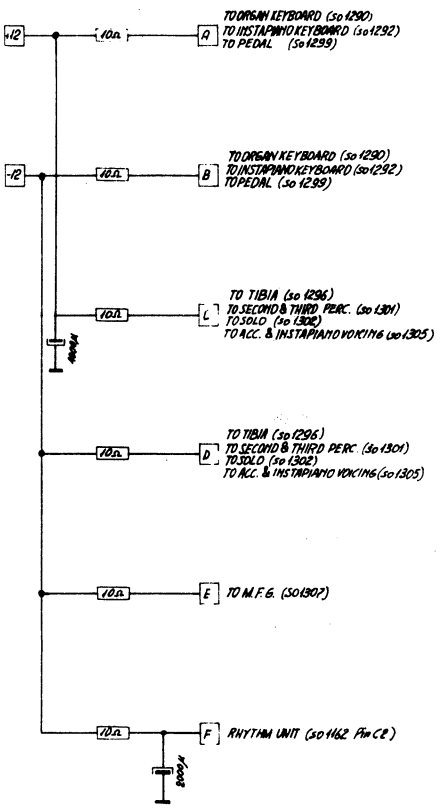
N°. SO 1289

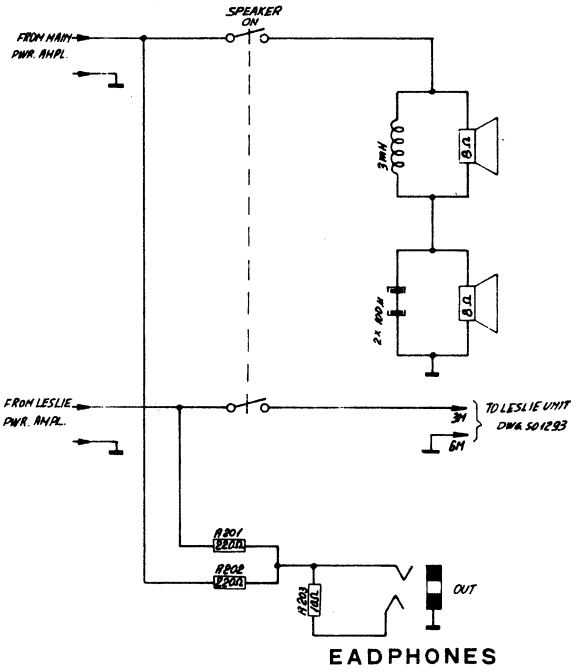
REPLACED BY

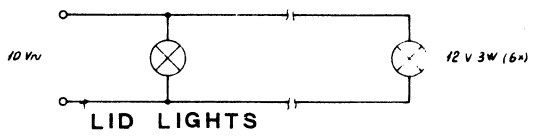
REPLACING

SCHEMATIC DIAGRAM:
73025 40W POWER AMPLIFIER



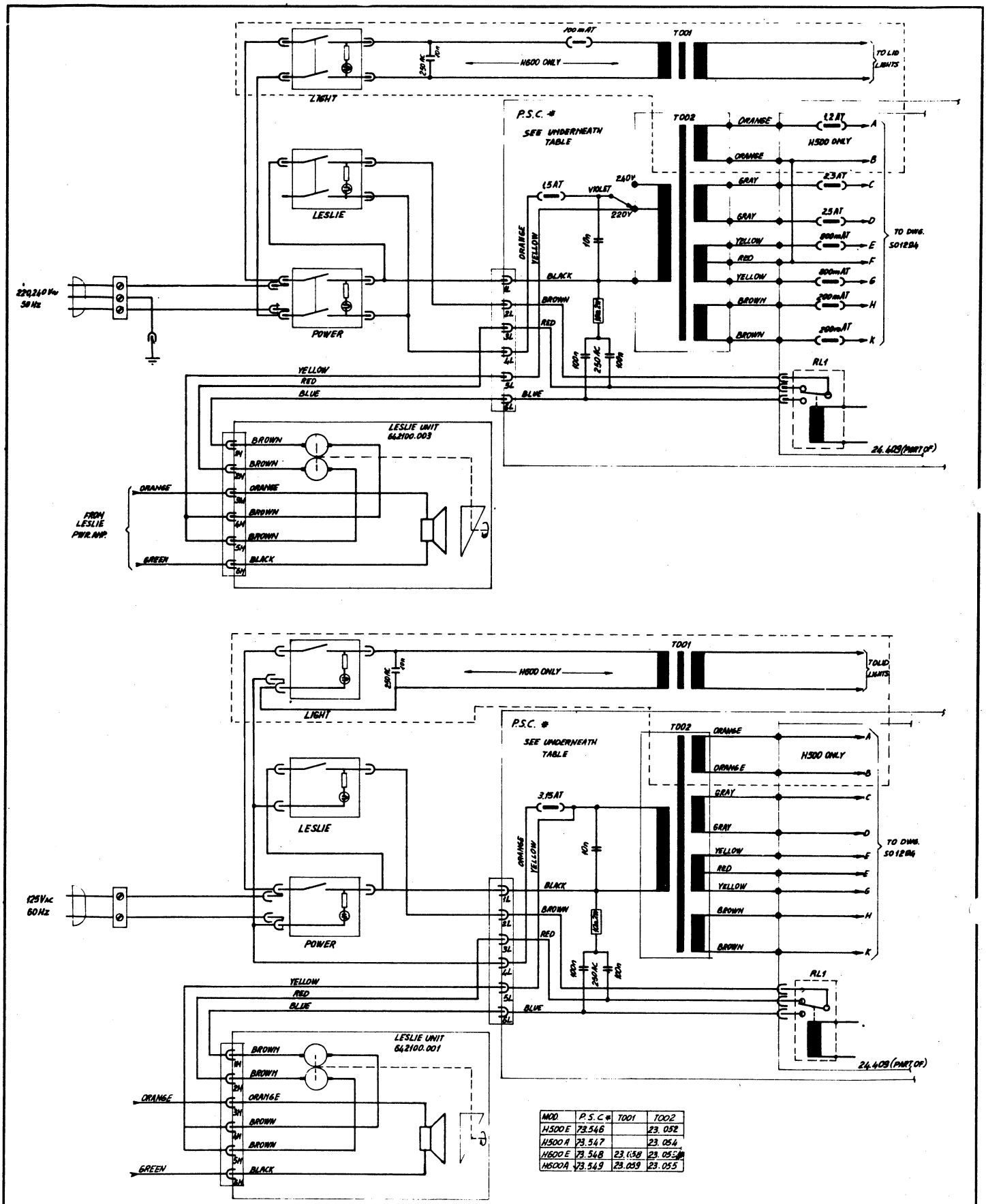






NOTES · 1) ALL RESISTORS ½ WATT UNLESS OTHERWISE SPECIFIED
2) ALL VOLTAGES MEASURED WITH 20000 OHM/VOLT METER WITHOUT SIGNAL WITH RESPECT TO GND

REV.		SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:	DDR MONDAINO (FO)
DRAWN	23.10.78			
CKD				
APPRVD	23/10/78			
N°. S01300		SCHEMATIC DIAGRAM: KEYER RESET, SPEAKER SYSTEM, POWER DISTRIBUTION.		
REPLACED BY				
REPLACING				



MOD.	P.S.C.#	T001	T002
H500 E	73.546		23.052
H500 A	73.547		23.054
H600 E	73.548	23.058	23.053
H600A	73.549	23.059	23.055

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	25.10.78		
CKD			
APPVD	23/10/78		

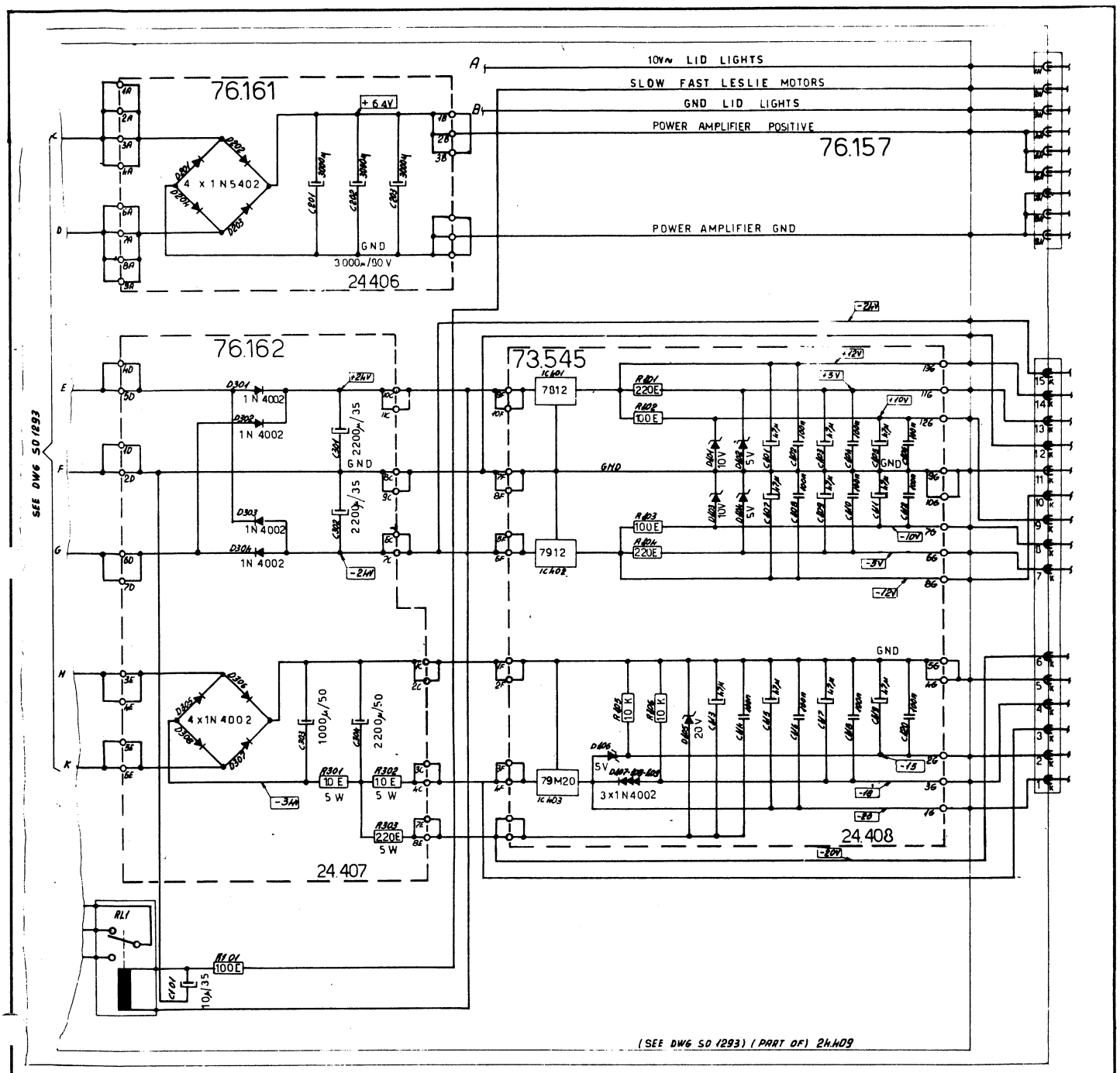
DDR MONDAINO (FO)

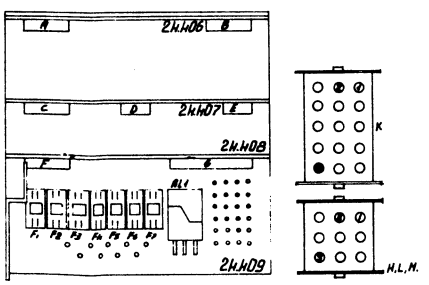
N°: S01293

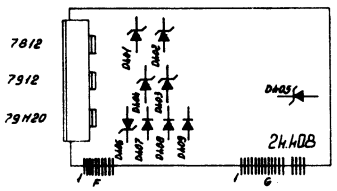
REPLACED BY

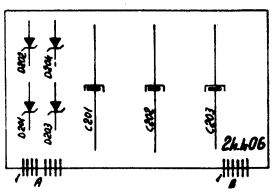
REPLACING

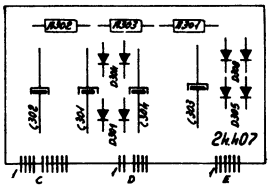
SCHEMATIC DIAGRAM: POWER SUPPLY, MAIN









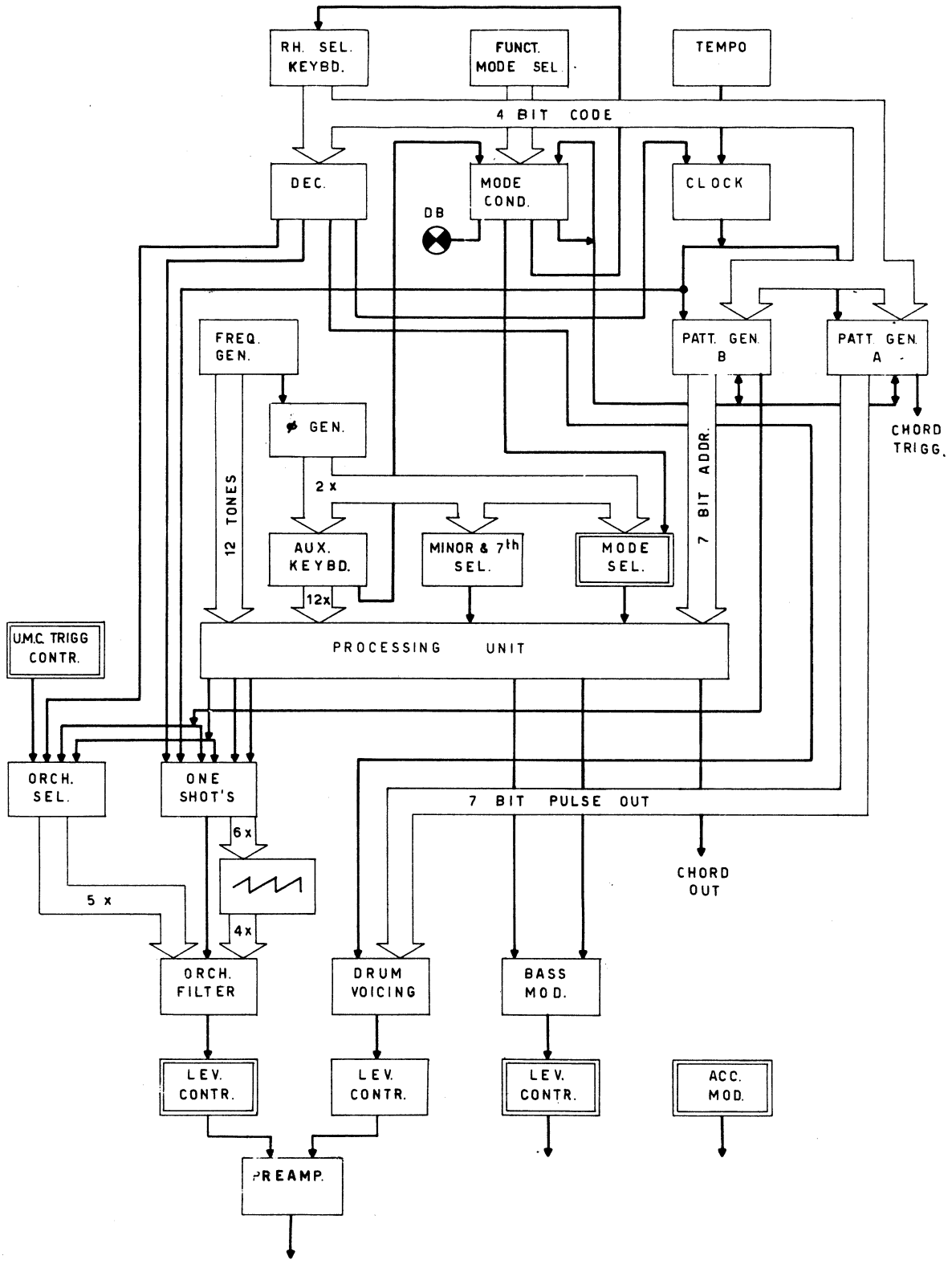


NOTES: 1) ALL POLYESTER CAPACITORS 100n UNLESS OTHERWISE SPECIFIED
2) ALL ELECTROLITIC CAPACITORS 47µ UNLESS OTHERWISE SPECIFIED
3) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED

REV.	SUBJECT	DATE	CKD
ISSUED	DATE	BY	USED ON:
DRAWN	6-9-78		
CKD	7-9-78		
APPVD	7/9/78		
N°: SO1294			SCHEMATIC DIAGRAM: SERIE H POWER SUPPLY: RECTIFIERS & VOLTAGE REGULATOR
REPLACED BY			
REPLACING			

DDR MONDAINO (FO)

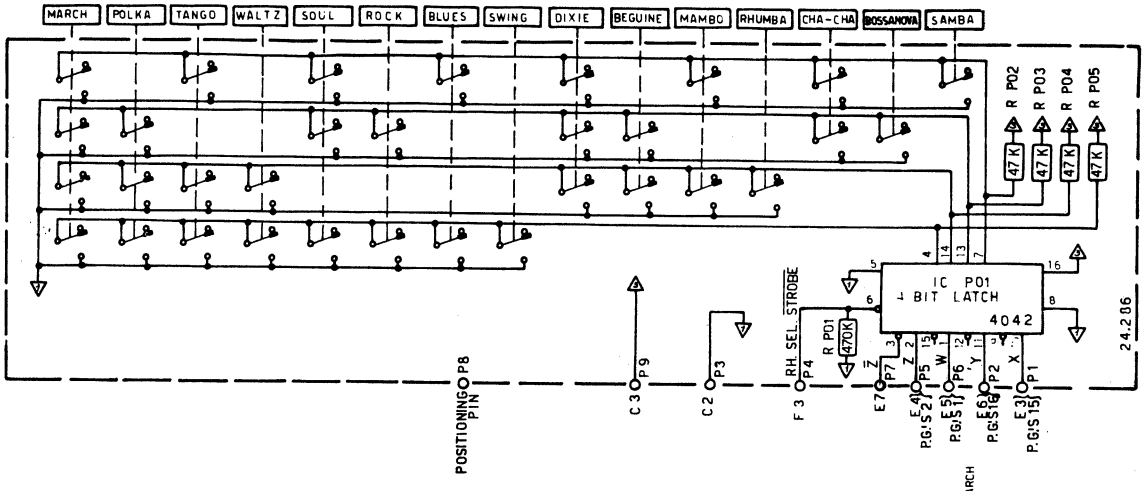
NOTES

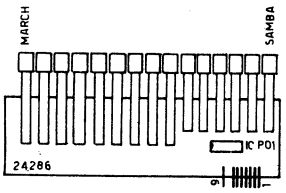


FRAME INDICATES CONTROL INTERACTING TO OR FROM HOST ORGAN.

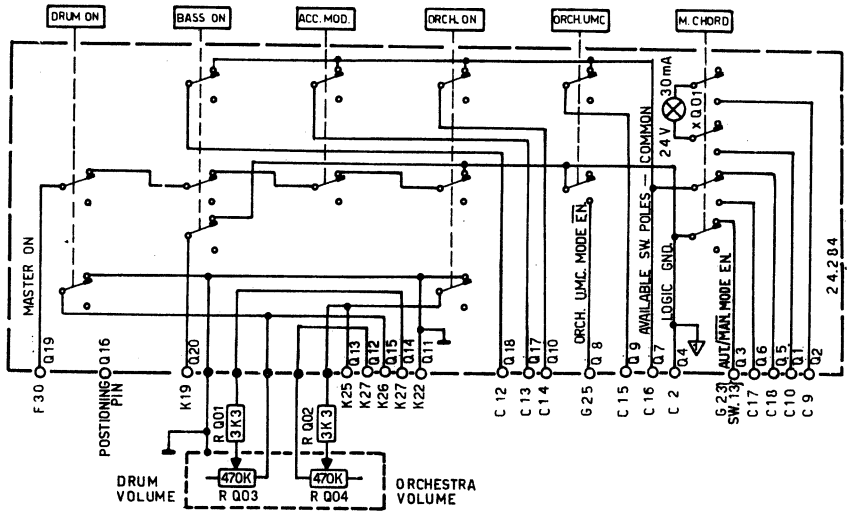
MOD. N.°	DESCRIZIONE					DATA	SIGLA
		DATA	SIGLA	SCALA	NOTE used on THE PERFORMER	DDR MONDAINO (FO)	
DISEGN.		26.8.76	Tabet				
CONTR.		31.8.76	Bottelli				
VISTO		10.9.76	Ulivi				
N.° SO - 1187					BLOCK DIAGRAM		
MATERIALE							
SOSTITUISCE IL N.°							
SOSTITUITO DAL N.°					TRATTAMENTO:		

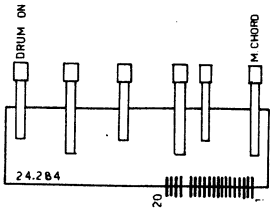
75.036 RHYTHM SEL. KEYBD.



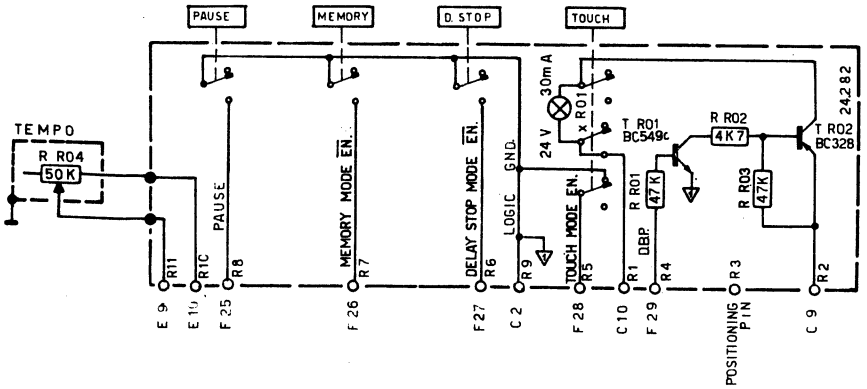


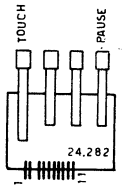
75.029 (Part of) ACC. MODE SEL. KEYBD.





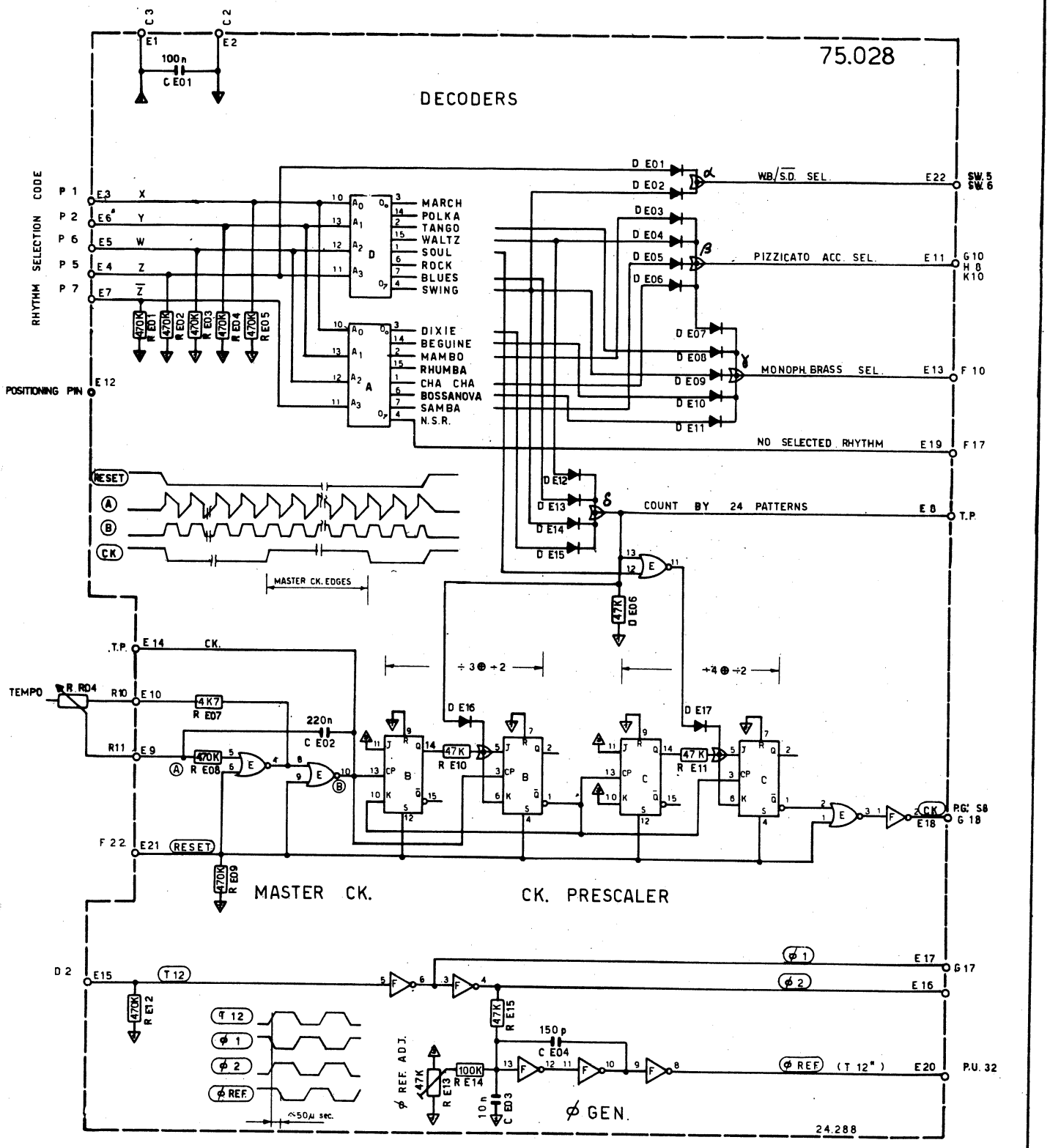
75.029 (Part of) OPERATIVE MODE SEL. KEYBD.





NOTES: 1) ▽ LOGIC GND. (-12)
2) △ +VDD C MOS
3) ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
4) ALL TABSWITCHES SHOWN IN OFF POSITION.
5) ALL VOLTAGES MEASURED WITH RESPECT TO △, WHICH IS CONNECTED TO ORGAN GENERATOR +VCC
6) ⊥ ORGAN GND.

MOD. N.°	DESCRIZIONE				DATA	SIGLA
	DATA	SIGLA	SCALA	NOTE used on THE PERFORMER		DDR MONDAINO (FO)
DISEGN.	3/11/76	Tabellini				
CONTR.	15/11/76	Tabellini				
VISTO	22/12/76					
N.° SO - 1190				CONTROL PANEL		
MATERIALE						
SOSTITUISCE N. N.°						
SOSTITUITO DAL N.°				TRATTAMENTO:		

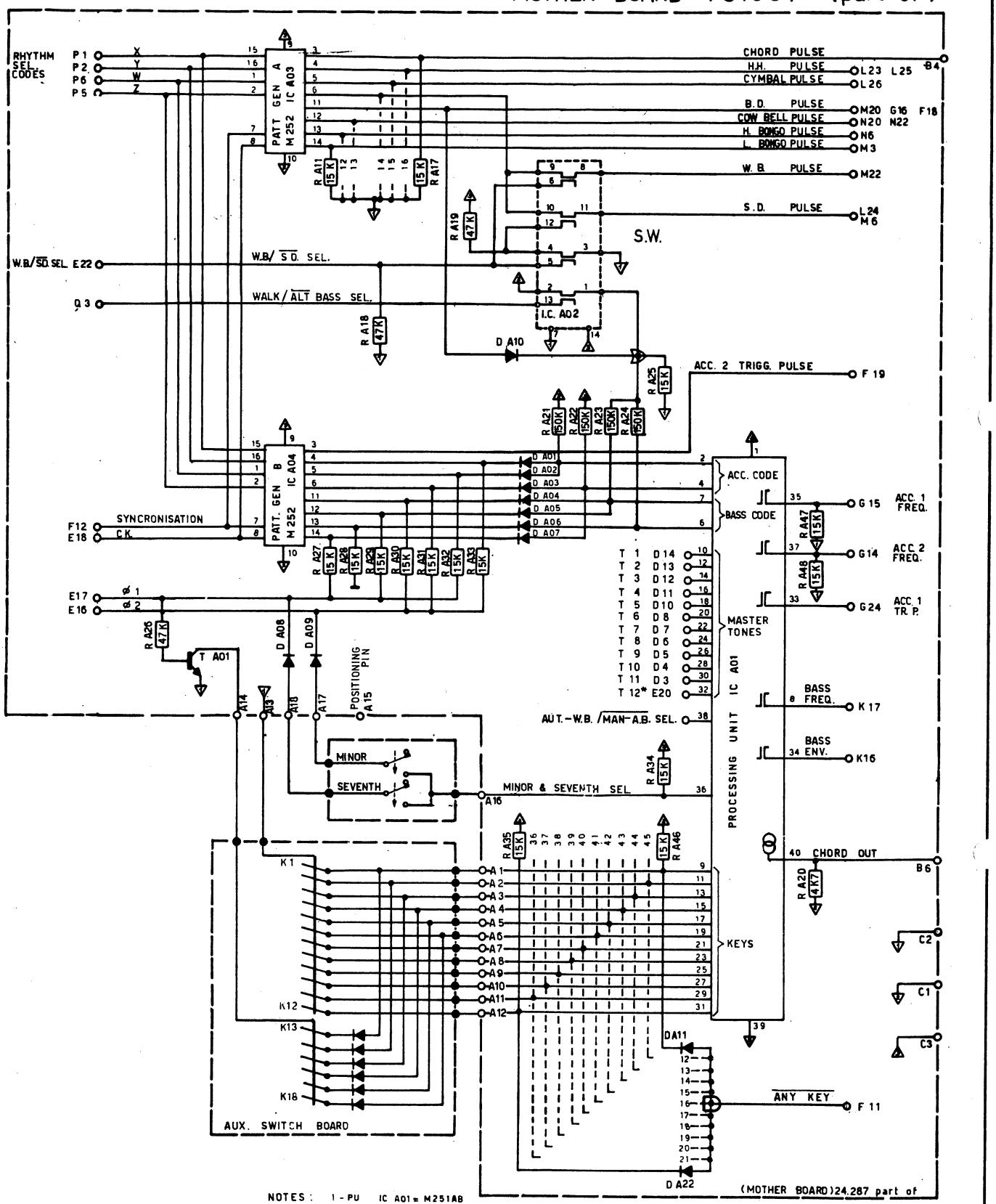


		Vdd	Vss
A =	I.C. E02 = 4028	pin 16	8
B =	I.C. E04 = 4027	" 16	8
C =	I.C. E05 = 4027	" 16	8
D =	I.C. E01 = 4028	" 16	8
E =	I.C. E03 = 4001	" 14	7
F =	I.C. E06 = 4069	" 14	7

NOTES:
1 – (RESET) (A) INDICATES OSCILLOSCOPE POINT
2 – ▽ LOGIC GND. (-12)
3 – △ +VDD CMOS
4 – ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
5 – ALL DIODES FDH999 UNLESS OTHERWISE SPECIFIED.
6 – ALL VOLTAGES MEASURED WITH RESPECT TO △ WHICH IS CONNECTED TO ORGAN GENERATOR + VCC

MOD. N.°	DESCRIZIONE	DATA	SIGLA
DISEGN.	DATA 24-8-76	SIGLA	
CONTR.	27/9/76		
VISTO	28.12.76		
NOTE used on: THE PERFORMER			
DDR MONDAINO (FO)			
N.° SO-1159	CLOCK & DECODERS		
MATERIALE			
SOSTITUISCE N. N.°			
SOSTITUITO DAL N.°	TRATTAMENTO:		

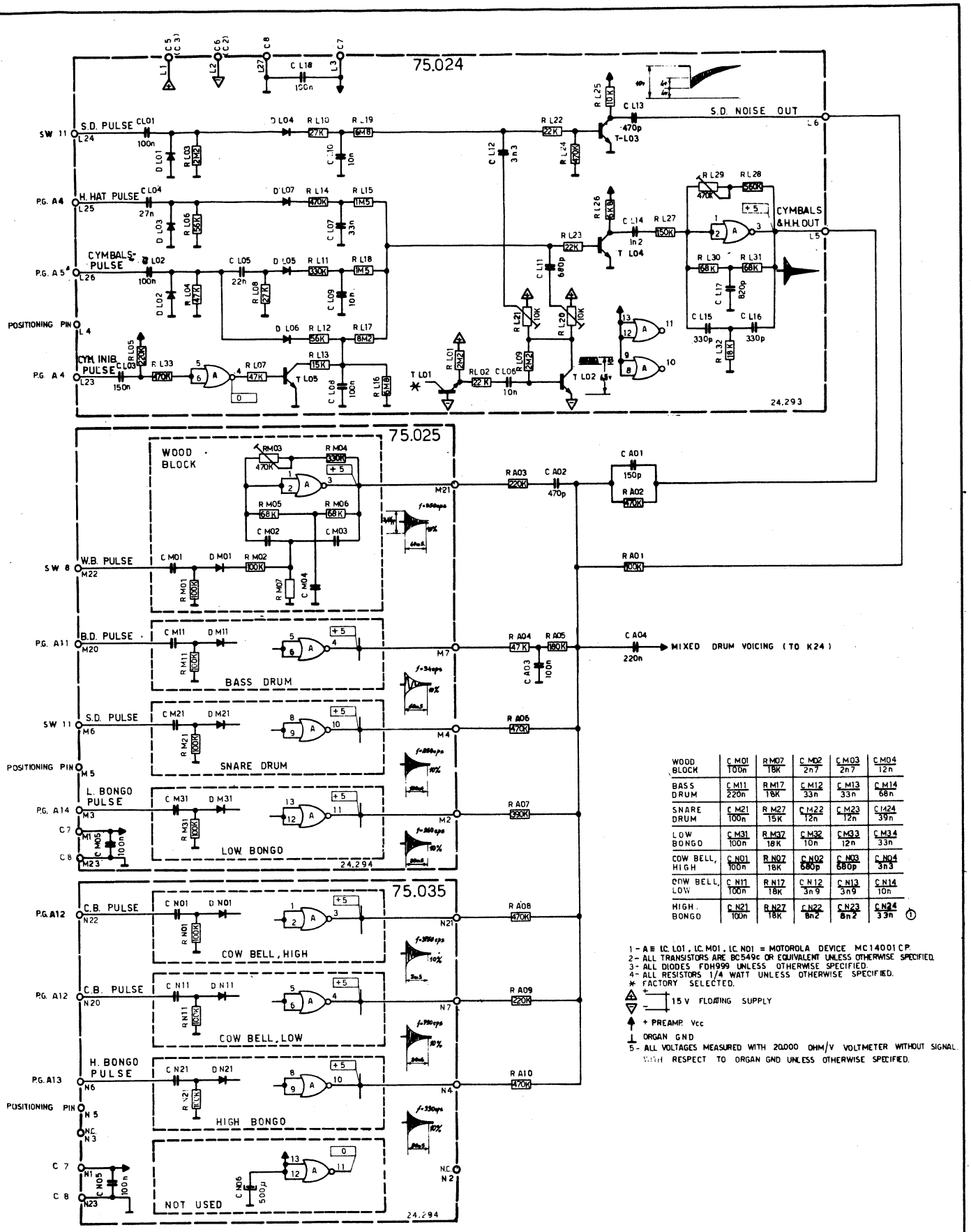
MOTHER BOARD 75.031 (part of)



NOTES:

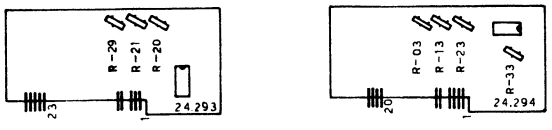
1 - PU IC A01 = M251AB
2 - SW = IC A02 = 4016
3 - PGA = IC A03 = M252AB
4 - PGB = IC A04 = M252AC
5 - ▽ LOGIC GND (- 12)
6 - ▽ - Vdd MOS (- 15)
7 - △ + Vdd CMOS (VRel)
8 - ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
9 - ALL DIODES FDH999 UNLESS OTHERWISE SPECIFIED.
10 - ALL TRANSISTORS ARE BC 549c UNLESS OTHERWISE SPECIFIED.
11 - ALL VOLTAGES MEASURED WITH RESPECT TO △ WHICH IS CONNECTED TO ORGAN GENERATOR + VCC.

DISEGN. 21/2/86		NOTE used on THE PERFORMER	DDR MONDAINO (FO)
CONTR.			
VISTO 21/2/86			
N.° SO - 1199		PROCESSING UNIT ADDRESSING.	
MATERIALE			
SOSTITUISCE N.			
SOSTITUITO DAL N.		TRATTAMENTO:	

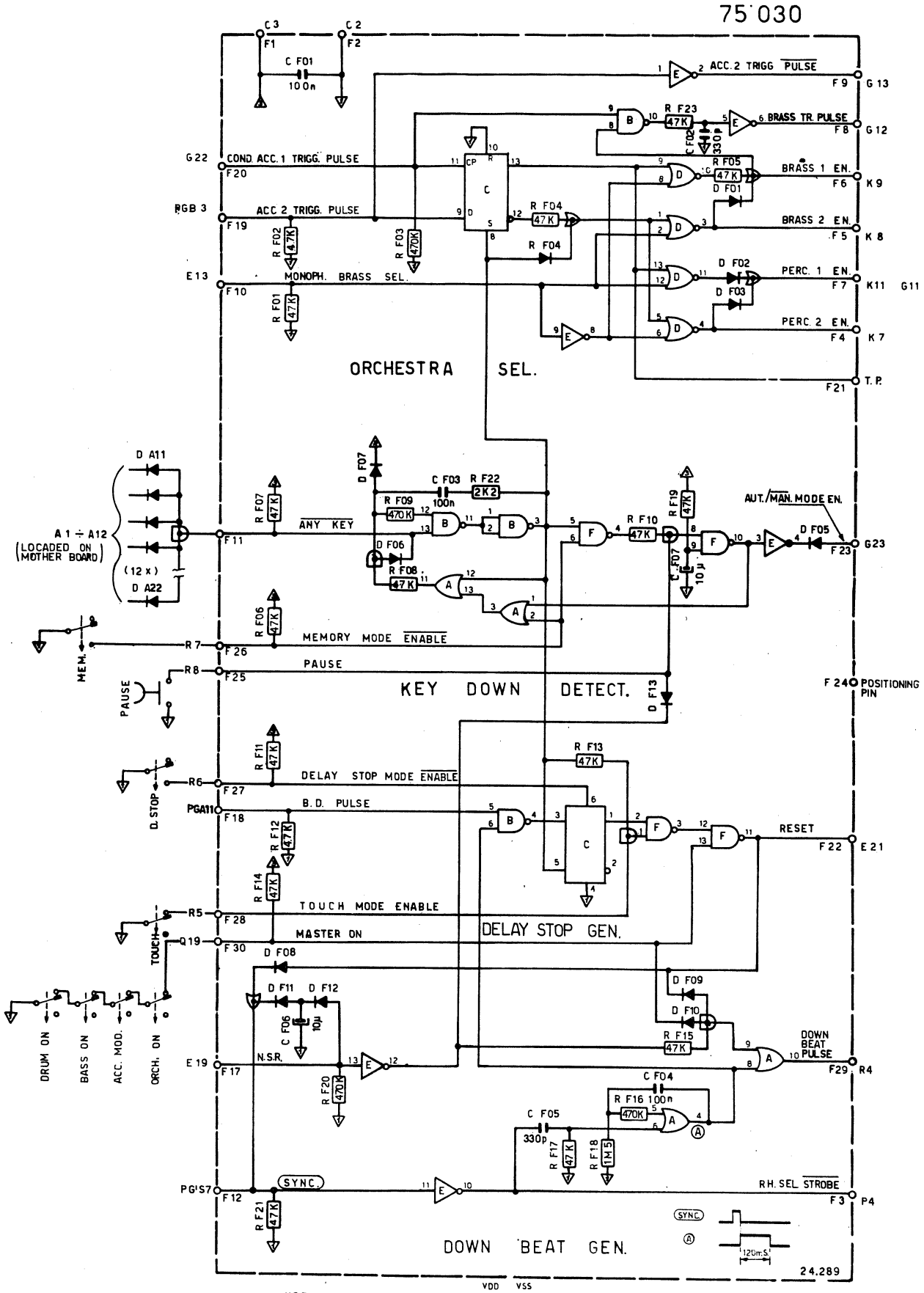


WOOD BLOCK	C M01 100n	R M07 18K	C M02 2n7	C M03 2n7	C M04 12n
BASS DRUM	C M11 220n	R M17 18K	C M12 33n	C M13 33n	C M14 68n
SNARE DRUM	C M21 100n	R M27 15K	C M22 12n	C M23 12n	C M24 39n
LOW BONGO	C M31 100n	R M37 18K	C M32 10n	C M33 12n	C M34 33n
COW BELL, HIGH	C N01 100n	R N07 18K	C N02 680p	C N03 680p	C N04 3n3
COW BELL, LOW	C N11 100n	R N17 18K	C N12 3n9	C N13 3n9	C N14 10n
HIGH BONGO	C N21 100n	R N27 18K	C N22 8n2	C N23 8n2	C N24 33n ①

1 - A ≡ I.C. L01, I.C. M01, I.C. N01 = MOTOROLA DEVICE MC14001 C.P.
2 - ALL TRANSISTORS ARE BC549c OR EQUIVALENT UNLESS OTHERWISE SPECIFIED.
3 - ALL DIODES FDH999 UNLESS OTHERWISE SPECIFIED.
4 - ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
* FACTORY SELECTED.
15 V FLOATING SUPPLY
+ PREAMP Vcc
ORGAN GND
5 - ALL VOLTAGES MEASURED WITH 20.000 OHM/V VOLTMETER WITHOUT SIGNAL. WITH RESPECT TO ORGAN GND UNLESS OTHERWISE SPECIFIED.



1	CN 24 DA 27n DIVENTA 33n		21-9-77	
MOD. N.°	DESCRIZIONE		DATA	SIGLA
	DATA	SIGLA	SCALA	NOTE: used on THE PERFORMER
DISEGN.	13-3-76			DDR MONDAINO (FO)
CONTR.	22/9/76			
VISTO	22/9/76			
N.° SO-1192			DRUM VOICING	
MATERIALE				
SOSTITUISCE IL N.°				
SOSTITUITO DAL N.°			TRATTAMENTO:	



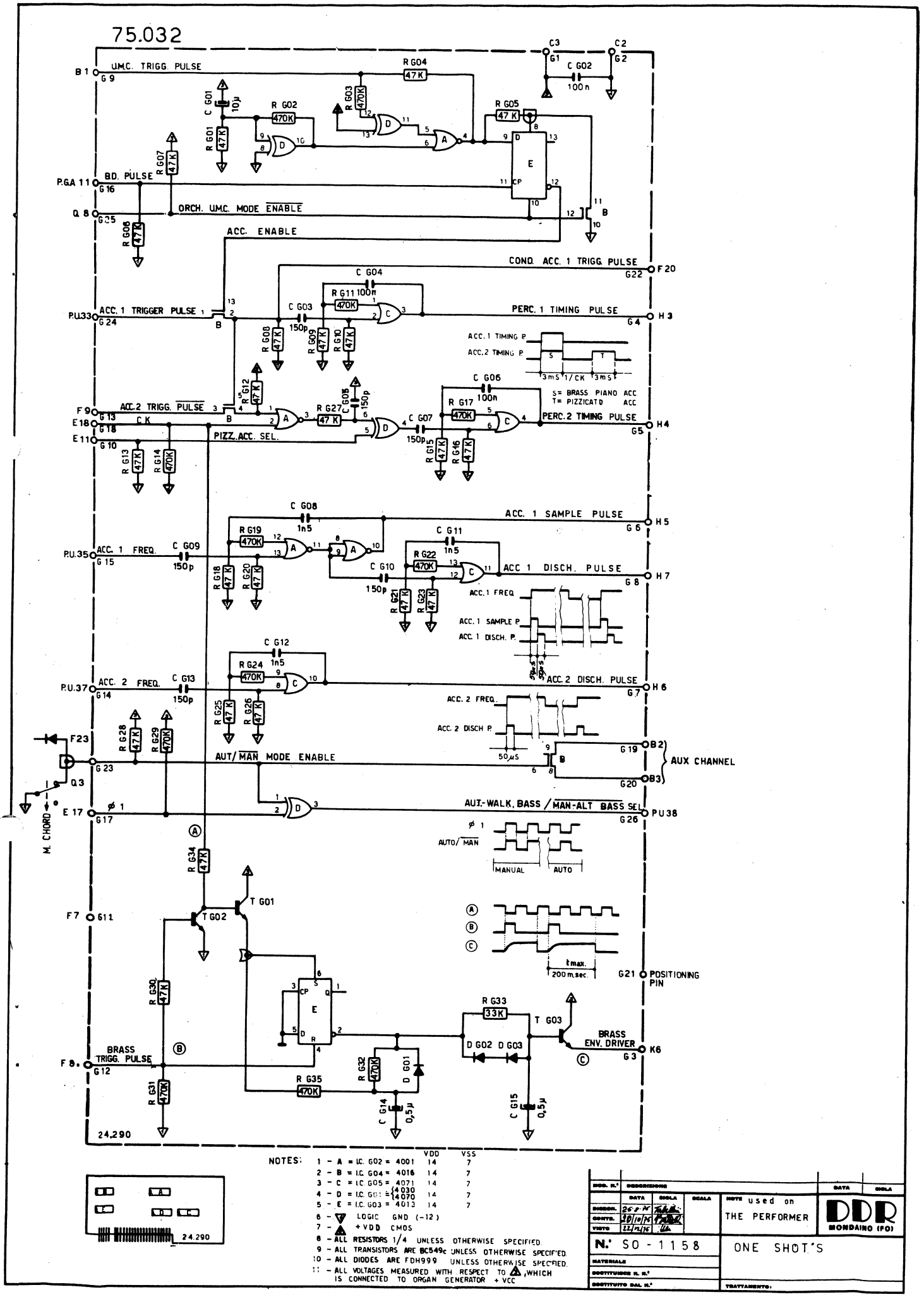
NOTES:

		VDD	VSS
1 – A = I.C. F01 = 4071		14	7
2 – B = I.C. F02 = 4011		14	7
3 – C = I.C. F03 = 4013		14	7
4 – D = I.C. F04 = 4001		14	7
5 – E = I.C. F05 = 4069		14	7
6 – F = I.C. F06 = 4011		14	7

7 – ▽ LOGIC GND (–12)
8 – △ +VDD CMOS
9 – ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
10 – ALL DIODES FDH999 UNLESS OTHERWISE SPECIFIED.
11 – ALL VOLTAGES MEASURED WITH RESPECT TO △, WHICH IS CONNECTED TO ORGAN GENERATOR + VCC

MOD. N.°	DESCRIZIONE			DATA	SIGLA
	DISEGN.	DATA 25.8.76	SIGLA	SCALA	NOTE used on: THE PERFORMER
	CONTR.	19/11/76			
	VISTO	22/12/76			
N.° SO-1160					MODE CONDITIONING
MATERIALE					
SOSTITUISCE IL N.°					
SOSTITUITO DAL N.°					TRATTAMENTO:

DDR MONDAINO (FO)

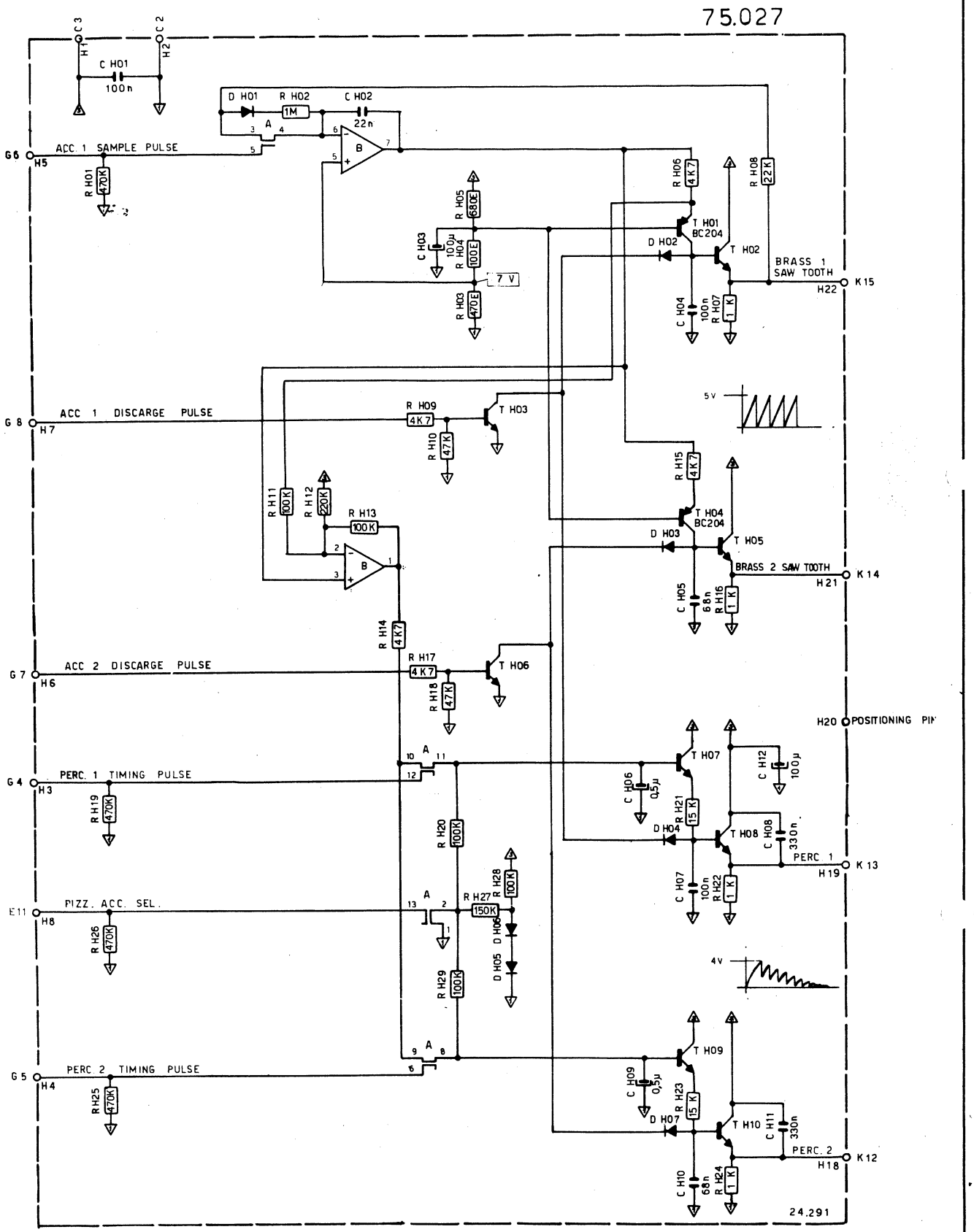


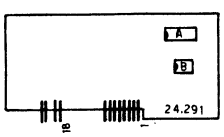
NOTES:

		VDD	VSS
1 - A = I.C. G02 =	4001	14	7
2 - B = I.C. G04 =	4016	14	7
3 - C = I.C. G05 =	4071	14	7
4 - D = I.C. G01 =	4030 / 4070	14	7
5 - E = I.C. G03 =	4013	14	7

6 - ▽ LOGIC GND (-12)
7 - △ +VDD CMOS
8 - ALL RESISTORS 1/4 UNLESS OTHERWISE SPECIFIED
9 - ALL TRANSISTORS ARE BC549c UNLESS OTHERWISE SPECIFIED.
10 - ALL DIODES ARE FDH999 UNLESS OTHERWISE SPECIFIED.
11 - ALL VOLTAGES MEASURED WITH RESPECT TO △ WHICH IS CONNECTED TO ORGAN GENERATOR + VCC

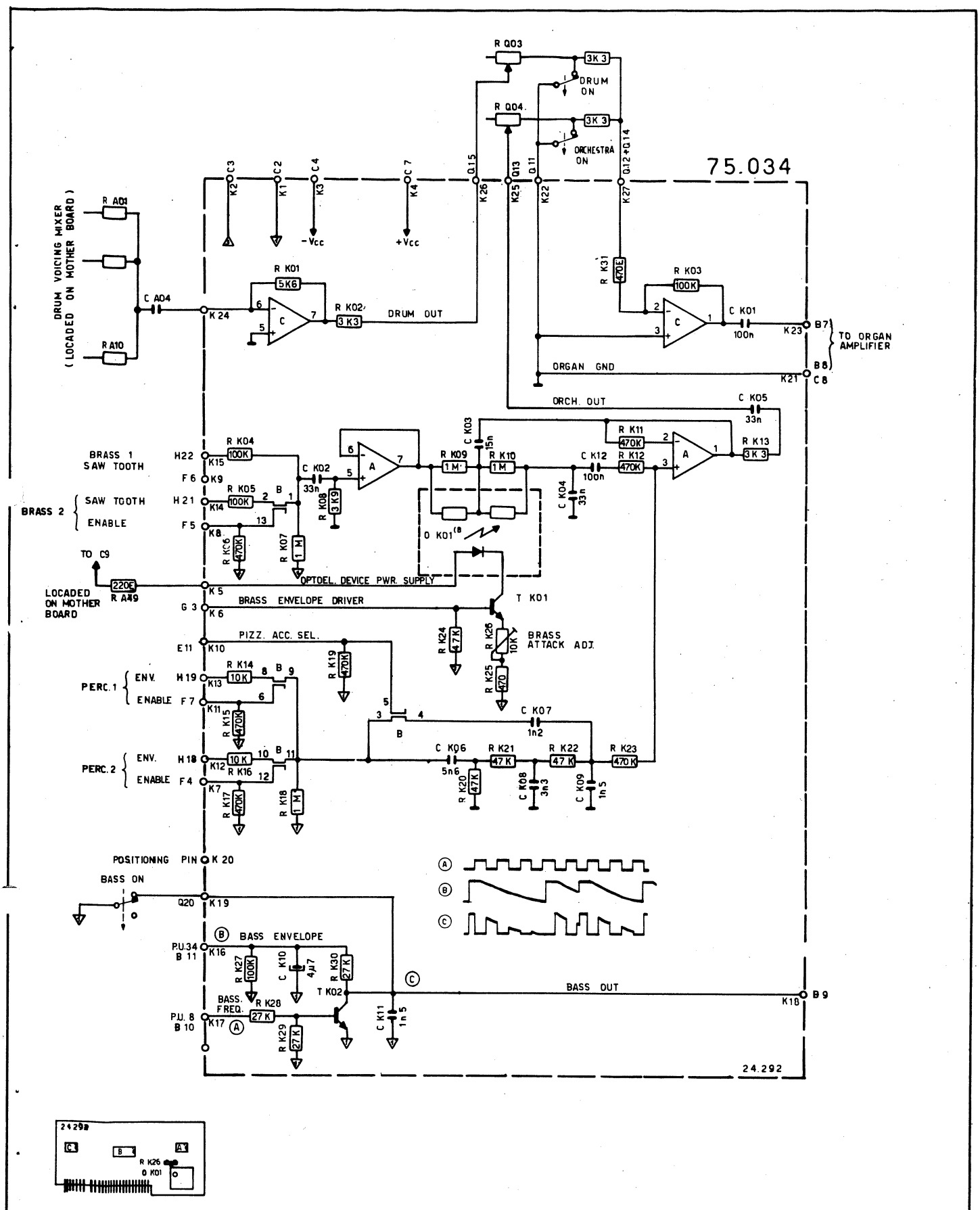
MOD. N.°	DESCRIZIONE	DATA	SIGLA
DISEGN.	26 2 74	NOTE used on THE PERFORMER	DDR MONDAINO (FO)
CONTR.	30/10/74		
VISTO	22/12/75		
N.° SO - 1158		ONE SHOT'S	
MATERIALE			
SOSTITUISCE N. N.°			
SOSTITUITO DAL N.°		TRATTAMENTO:	





NOTES:
1 - A = IC HC1 = 4016 pin 7 pin 14 (VSS or -Vcc, VDD or +Vcc)
2 - B = IC HC2 = 1458 pin 4 pin 8
3 - ▽ LOGIC GND (-12)
4 - ▲ +VDD CMOS
5 - ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
6 - ALL DIODES FDH999 UNLESS OTHERWISE SPECIFIED
7 - ALL TRANSISTORS ARE BC549c UNLESS OTHERWISE SPECIFIED.
9 - ALL VOLTAGES MEASURED WITH RESPECT TO ▲ WHICH IS CONNECTED TO "RGAN GENERATOR + VCC

MOD. N.°	DESCRIZIONE			DATA	SIGLA
DISEGN.	DATA 7.2.77	SIGLA	SCALA	NOTE used on THE PERFORMER	DDR MONDAINO (FO)
CONTR.	14/11/76				
VISTO	7.2.77				
N.° SO - 1157				SAW TOOTH GENERATION.	
MATERIALE					
SOSTITUISCE N. N.°					
SOSTITUITO DAL N.°				TRATTAMENTO:	



NOTES:

		Vss or -Vcc	Vdd or +Vcc
1 - A	= I.C. KO1 = 1458	4	8
2 - B	= I.C. KO2 = 4016	7	14
3 - C	= I.C. KO3 = 1458	4	8

4 - ▽ LOGIC GND (-12)
5 - △ +VDD CMOS
6 - ALL RESISTORS 1/4 WATT UNLESS OTHERWISE SPECIFIED.
7 - ALL TRANSISTORS ARE BC549; UNLESS OTHERWISE SPECIFIED
8 - O K01 = FACTORY SELECTED DEVICE 08.814

MOD. N.°	DESCRIZIONE			DATA	SIGLA
	DATA	SIGLA	SCALA	NOTE used on THE PERFORMER	DDR MONDAINO (FO)
DISEGN.	27.8.76				
CONTR.	19/11/76				
VISTO	24.11.76				
N.° SO - 1191				ORCHESTRA VOICING FILTER	
MATERIALE					
SOSTITUISCE N. N.°					
SOSTITUITO DAL N.°				TRATTAMENTO:	

PIN. N°	" A " CONN. KEYS
1	KEY 1
2	" 2
3	" 3
4	" 4
5	" 5
6	" 6
7	" 7
8	" 8
9	" 9
10	" 10
11	" 11
12	" 12
13	FIRST OCTAVE BUS BAR
14	SECOND " " "
15	POSITIONING PIN
16	MINOR & SEVENTH SEL.
17	MINOR SELECT. TIMING
18	SEVENTH " "

PIN. N°	" B " CONN. OUTPUTS
1	U.M.C. TRIGGER PULSE
2	AUXILIARY CHANNEL
3	
4	CHORD TRIGGER PULSE
5	POSITIONING PIN
6	CHORD OUT
7	DRUM & ORCHESTRA OUT
8	ORGAN GROUND, ⊥
9	BASS OUT
10	" FREQUENCY
11	" ENVELOPE

PIN. N°	" C " CONN. POWER SUPPLIES
1	- MOS Vdd, ▽
2	LOGIC GROUND, ▽
3	+ CMOS Vdd, △
4	- PREAMP. Vcc
5	+ NOISE GEN. P.SUPPLY
6	- (INTERNALLY CONN.)
7	+ PREAMP. Vcc
8	ORGAN GROUND, ⊥
9	+ LAMPS PWR.SUPPLY
10	-
11	POSITIONING PIN
12	BASS ON)
13	ACC. MOD.)
14	ORCH. ON) AVAILABLE
15	ORCH. U.M.C.) SWITCHING
16	COMMON) POLES
17	MAGIC CH.)
18	MAGIC CH.)

PIN. N°	" D " CONN. MASTER TONES
1	NOT CONNECTED
2	TONE 12
3	" 11
4	" 10
5	" 9
6	" 8
7	" 7
8	" 6
9	POSITIONING PIN
10	TONE 5
11	" 4
12	" 3
13	" 2
14	" 1
18	LOGIC GROUND, ▽
19	NOT CONNECTED
20	LOGIC GROUND, ▽
21	NOT CONNECTED
22	+ CMOS Vdd, △

PIN. N°	" E " CONN. CLOCK & DECODERS
1	+ CMOS Vdd, △
2	LOGIC GROUND, ▽
3	X(L.S. D. RHYTHM CODE)
4	Z(M.S. D. " ")
5	W(3rd S.D. " ")
6	Y(2nd S.D. " ")
7	Σ
8	TEST POINT
9	TEMPO CONTROL
10	
11	PIZZICATO ACC. SELECT.
12	POSITIONING PIN
13	MONOPH. BRASS SELECT.
14	TEST POINT
15	TONE 12
16	ø 2
17	ø 1
18	CLOCK
19	NO SELECTED RHYTHM
20	TONE 12* (ø REF)
21	RESET
22	W.B./S.D. SELECTION

PIN. N°	" F " CONN. MODE COND.
1	+ CMOS Vdd, △
2	LOGIC GROUND, ▽
3	RHYTHM SELECT. STROBE
4	PERCUSSION 2 ENABLE
5	BRASS 2 "
6	BRASS 1 "
7	PERCUSSION 1 "
8	BRASS TRIGGER PULSE
9	ACC.2 TRIGGER PULSE
10	MONOPH. BRASS SELECT.
11	ANY KEY
12	SYNCRONISATION (PG'S)
17	NO SELECTED RHYTHM
18	BASS DRUM PULSE
19	ACC. 2 TRIGG. PULSE
20	COND.ACC.1 TRIGG. PULSE
21	TEST POINT
22	RESET
23	MODE AUT./MAN. MODE EN.
24	POSITIONING PIN
25	PAUSE
26	MEMORY MODE ENABLE
27	DELAY STOP MODE EN.
28	TOUCH MODE ENABLE
29	DOWN BEAT PULSE
30	MASTER ON

PIN. N°	" G " CONN. ONE SHOT 'S
1	+ CMOS Vdd, △
2	LOGIC GROUND, ▽
3	BRASS ENVELOPE DRIVER
4	PERC. 1 TIMING PULSE
5	" 2 " "
6	ACC. 1 SAMPLE "
7	" 2 DISCH. "
8	" 1 " "
9	U.M.C. TRIGGER PULSE
10	PIZZICATO ACC. SELECT.
11	PERC. 1 ENABLE
12	BRASS TRIGGER PULSE
13	ACC.2 TRIGGER PULSE
14	" 2 FREQUENCY
15	" 1 "
16	BASS DRUM PULSE
17	ø 1
18	CLOCK
19	AUXILIARY CHANNEL
20	
21	POSITIONING PIN
22	COND.ACC.1 TRIGG.PUL.
23	AUT./MAN. MODE EN.
24	ACC.1 TRIGGER PULSE
25	ORCH.U.M.C. MODE EN.
26	AUT.-W.BASS/MAN.- A.BASS

PIN. N°	" H " CONN. S. TOOTH GENERATION
1	+ CMOS Vdd, △
2	LOGIC GROUND, ▽
3	PERC.1 TIMING PULSE
4	" 2 " "
5	ACC. 1 SAMPLE "
6	" 2 DISCH. "
7	" 1 " "
8	PIZZICATO ACC. SELECT.
18	PERC.2 ENVELOPE
19	" 1 "
20	POSITIONING PIN
21	BRASS 2 SAW TOOTH
22	" 1 " "

PIN. N°	" K " CONN. ORCH. VOICING FILTER
1	LOGIC GROUND, ▽
2	+ CMOS Vdd, △
3	- PREAMP. Vcc
4	+ PREAMP. Vcc
5	OPTOEL. POWER SUPPLY
6	BRASS ENVELOPE DRIVER
7	PERC. 2 ENABLE
8	BRASS 2 "
9	" 1 "
10	PIZZICATO ACC.SELECT.
11	PERC. 1 ENABLE
12	" 2 ENVELOPE
13	" 1 "
14	BRASS 2 SAW TOOTH
15	" 1 " "
16	BASS ENVELOPE
17	" FREQUENCY
18	" OUT
19	" ON
20	POSITIONING PIN
21	ORGAN GROUND, ⊥
22	
23	DRUM & ORCHESTRA OUT
24	MIXED DRUM VOICING
25	ORCHESTRA OUT
26	DRUM OUT
27	MIXED DRUM & ORCH.LEV.

PIN. N°	" L " CONN. CYMBALS VOICING
1	△ (+CMOS Vdd) NOISE G.
2	▽ (-MOS Vdd) P.SUPPLY
3	+ PREAMP. Vcc
4	POSITIONING PIN
5	CYMBALS & H. H. OUT
6	SNARE DRUM NOISE OUT
23	CYMBALS INHIBIT. PULSE
24	SNARE DRUM PULSE
25	HIGH HAT PULSE
26	CYMBAL PULSE
27	ORGAN GROUND, ⊥

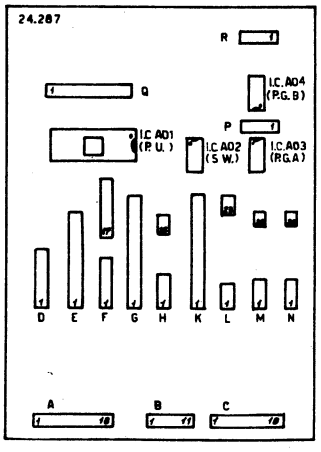
PIN. N°	" M " CONN. DRUM VOICING I
1	+ PREAMP. Vcc
2	LOW BONGO OUT
3	" " PULSE
4	SNARE DRUM BONGO OUT
5	POSITIONING PIN
6	SNARE DRUM PULSE
7	BASS DRUM OUT
20	BASS DRUM PULSE
21	WOOD BLOCK OUT
22	" " PULSE
23	ORGAN GROUND, ⊥

PIN. N°	" N " CONN. DRUM VOICING II
1	+ PREAMP. Vcc
2	NOT CONNECTED
3	" "
4	HIGH BONGO OUT
5	POSITIONING PIN
6	HIGH BONGO PULSE
7	COW BELL, LOW, OUT
20	COW BELL PULSE
21	" " , HIGH, OUT
22	" " PULSE
23	ORGAN GROUND, ⊥

PIN. N°	" P " CONN. RHTTHM SEL. KEYBD.
1	X(L.S.D.RHYTHM CODE)
2	Y(2nd S.D. " ")
3	LOGIC GROUND,
4	RHYTHM SELECT STROBE
5	Z(M.S.D.RHYTHM CODE)
6	W(3rd S.D. " ")
7	Σ
8	POSITIONING PIN
9	+ CMOS Vdd, △

PIN. N°	" Q " CONN. ACC.MODE SEL.KEYBD.
1	+ LAMP POWER SUPPLY
2	-
3	AUT./MAN.MODE ENABLE
4	LOGIC GROUND,
5	MAGIC CHORD AV.SW.PL.
6	MAGIC CHORD " " "
7	AV.SW.POLES, COMMON
8	ORCH. U.M.C. MODE EN.
9	" " " " AV.SW.PL.
10	" ON " " "
11	ORGAN GROUND, ⊥
12	ORCHESTRA LEVEL
13	" OUT
14	DRUM LEVEL
15	" OUT
16	POSITIONING PIN
17	ACC.MOD.AV.SW.POLE
18	BASS ON " " "
19	MASTER ON
20	BASS ON

PIN. N°	" R " CONN. O.M. SEL.KEYBD.
1	+ LAMP POWER SUPPLY
2	-
3	POSITIONING PIN
4	DOWN BEAT PULSE
5	TOUCH MODE ENABLE
6	DELAY STOP MODE EN.
7	MEMORY MODE ENABLE
8	PAUSE
9	LOGIC GROUND, ▽
10	TEMPO CONTROL
11	



DISEGN.	18-12-76	Talbot	1 : 2	used on THE PERFORMER	DDR BONDANO (FO)
CONTR.	22.12				
VISTO	22.12.76				
N.° SO - 1161				INTERCONNECTION LIST	
MATERIALE					
SOSTITUISCE N. N.°					
SOSTITUITO DAL N.°				TRATTAMENTO:	